10/672,965

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 18	Current-awareness alerts, saved answer sets, and current search transcripts to be affected by CERAB, COMPUAB, ELCOM, and SOLIDSTATE reloads
NEWS	6	NOV 30	PHAR reloaded with additional data
NEWS	7	DEC 01	LISA now available on STN
NEWS	8	DEC 09	12 databases to be removed from STN on December 31, 2004

NEWS EXPRESS	OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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FILE 'HOME' ENTERED AT 15:47:25 ON 14 DEC 2004

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:47:38 ON 14 DEC 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 DEC 2004 HIGHEST RN 796963-46-7
DICTIONARY FILE UPDATES: 13 DEC 2004 HIGHEST RN 796963-46-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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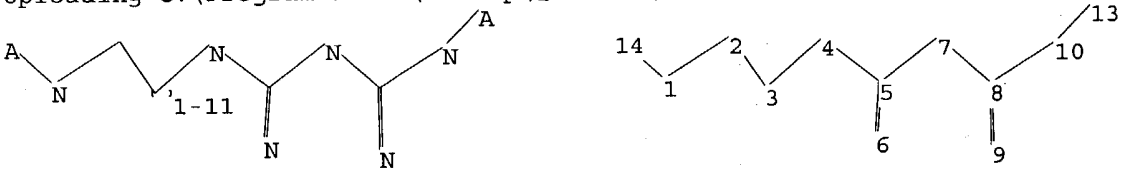
Uploading C:\Program Files\Stnexp\Queries\10672465.str

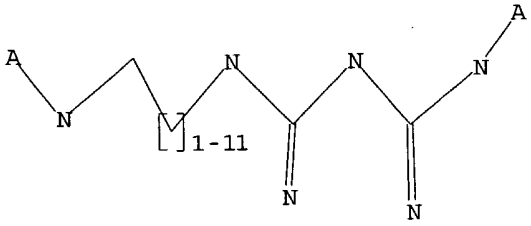


chain nodes :
1 2 3 4 5 6 7 8 9 10 13 14
chain bonds :
1-2 1-14 2-3 3-4 4-5 5-6 5-7 7-8 8-9 8-10 10-13
exact/norm bonds :
1-2 1-14 3-4 4-5 5-6 5-7 7-8 8-9 8-10 10-13
exact bonds :
2-3

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> d query
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

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SAMPLE SEARCH INITIATED 15:47:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     99 TO ITERATE

100.0% PROCESSED      99 ITERATIONS                                25 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1384 TO     2576
PROJECTED ANSWERS:             199 TO      799

L2            25 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 15:48:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2045 TO ITERATE

100.0% PROCESSED    2045 ITERATIONS                              423 ANSWERS
SEARCH TIME: 00.00.01

L3           423 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.42     155.63

FILE 'CAPLUS' ENTERED AT 15:48:08 ON 14 DEC 2004
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FILE COVERS 1907 - 14 Dec 2004  VOL 141 ISS 25
FILE LAST UPDATED: 13 Dec 2004  (20041213/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l3
L4           171 L3

=> d l4 1-171 abs ibib hitstr
```

L4 ANSWER 1 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A composition and method of controlling oral and other human pathogens is disclosed. The composition and method utilize an antimicrobial or antibiotic and a berberine as active agents to treat mammals, including humans. Test results against a number of oral pathogens demonstrated that the antimicrobial effects of antibiotics such as tetracycline or doxycycline and berberine are synergistically potentiated when the agents are coadministered, sequentially or simultaneously.

ACCESSION NUMBER: 2004:927047 CAPLUS
DOCUMENT NUMBER: 141:400898
TITLE: Berberine-antibiotic combination for controlling oral pathogens
INVENTOR(S): Wu, Christine D.; Kinghorn, Douglas; Roberts, Sara Kate
PATENT ASSIGNEE(S): The Board of Trustees of the University of Illinois, USA
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

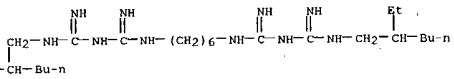
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004093876	A2	20041104	WO 2004-US8616	20040322

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-460187P P 20030403

IT **1715-30-6**, Alexidine dihydrochloride **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(berberine-antibiotic combination for controlling oral pathogens)

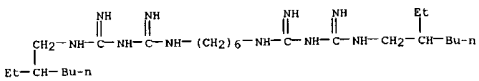
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 1 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention is directed to a biguanide-containing disinfecting solns. effective in inactivating bacteria endospores on surfaces, air-borne or in water. The methods of using the present invention are directed to disinfecting endospore laden surfaces, air and water with the subject biguanide-containing solns. Solns. containing poly(hexamethylenebiguanide) and alexidine and nonionic surfactants were tested against a number of bacterial endospores.

ACCESSION NUMBER: 2004:857197 CAPLUS
DOCUMENT NUMBER: 141:337740
TITLE: Disinfecting solutions containing biguanides effective against bacterial endospores
INVENTOR(S): Ammon, Daniel M.; Borazjani, Roya Nicole; Salamone, Joseph C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

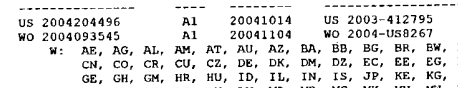
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004204496	A1	20041014	US 2003-412795	20030411
WO 2004093545	A1	20041104	WO 2004-US8267	20040318

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-412795 A 20030411

IT **22573-93-9**, Alexidine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(disinfecting solns. containing biguanides effective against bacterial endospores)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The invention concerns mouth and dental care products, especially tooth pastes that contain: (A) a cationic antibacterial agent, especially cationic derivatized bis-guanidine, salts of chlorohexidine and alexidine; (b) an anti-plaque agent, especially azacycloheptane 2,2-diphosphonic acid or its salt; (C) at least one binding agent selected from the group of Xanthan gum, CM-cellulose or their mixture Further ingredients that can be added are: nonionic surfactants from the group of alkylpolyglucosides; fluorides, e.g. sodium fluoride, ammonium fluoride or an organic amine fluoride. Thus a composition included (weight/weight%): chlorohexidine digluconate (20% solution) 0.03; lauryl glucoside (50-53%) 0.1; Keltrol F 0.2; Tagat CH 60 0.2; ethanol (99.8%) 5.0; flavor 0.15; sodium fluoride 0.045; Xylitol 1.0; sodium-saccharine 0.03; polydiol 400 1.0; sorbitol (70%) 0.9;.

ACCESSION NUMBER: 2004:778555 CAPLUS
DOCUMENT NUMBER: 141:282461
TITLE: Antibacterial and antiplaque mouth and dental care product containing chlorohexidine digluconate and azacycloheptane diphosphonate
INVENTOR(S): Wuelknitz, Peter; Laska, Hans
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10311171	A1	20040923	DE 2003-10311171	20030312
WO 2004080434	A1	20040923	WO 2004-EP2503	20040311

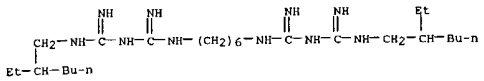
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2003-10311171 A 20030312

IT **22573-93-9D**, Bisguanidine, cationic derivative
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(antibacterial and antiplaque mouth and dental care product containing chlorohexidine digluconate and azacycloheptane diphosphonate)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 4 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A novel improved gypsum board having improved antifungal properties is disclosed. The board comprises a gypsum core, front and back paper facings and a polymeric antifungal agent effective at inhibiting fungal growth. A preferred polymeric antifungal agent is polyDADMAC or polyTMMC.

In addition to the polymeric antifungal agent, a non-polymeric antifungal agent, such as cetyl pyridinium chloride, sodium or zinc pyrithione, or both, may be included. The polymeric antifungal agent can be present in the gypsum core and/or on one or both of the paper facings. In addition, the antifungal agent may be encapsulated in a material or ionically associated with the polymeric antifungal agent, that releases the antifungal agent over time and/or upon exposure to moisture. Also disclosed are methods for preparing the aforementioned improved antifungal gypsum board. The antifungal agent is compatible with the gypsum board such that the mech. properties of the gypsum board are substantially unchanged. The water resistant property of gypsum board is increased by the contact of the gypsum core or paper facing components with the polymeric antifungal agent.

ACCESSION NUMBER: 2004:740529 CAPLUS
DOCUMENT NUMBER: 141:264640
TITLE: Improved antifungal gypsum board with controlled release polymeric quaternary ammonium antifungal agent and water-resistant characteristics
INVENTOR(S): Toreki, William; Staab, Gregory; Olderman, Gerald
PATENT ASSIGNEE(S): Quick-Med Technologies, Inc., USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004076770	A1	20040910	WO 2004-US5616	20040225

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI

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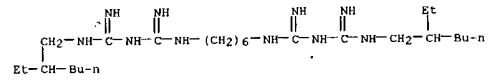
PRIORITY APPLN. INFO.: US 2003-449915P P 20030225

IT **22573-93-9**, Alexidine
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(antifungal agent; improved antifungal gypsum board with controlled release polymeric quaternary ammonium antifungal agent and water-resistant characteristics)

RN 22573-93-9 CAPLUS

L4 ANSWER 4 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The invention describes methods of modulating expression of glutamate transporter EAAT2 (excitatory amino acid transporter 2) for treating disease and disease symptoms. The present invention is based on the discovery of the sequence of the EAAT2 promoter region, specifically P1, P2 and P3 promoters. The present invention provides screening assays useful for identifying compds. which modulate the activity of the EAAT2 promoter, and methods of treating neurol. and psychiatric disorders comprising administration of EAAT2 promoter modulators.

ACCESSION NUMBER: 2004:740488 CAPLUS
DOCUMENT NUMBER: 141:254588
TITLE: EAAT2 promoter sequences, and methods for increasing EAAT2 expression, screening for glutamate transport modulatory compounds, and treating neurological and psychiatric disorders
INVENTOR(S): Rothstein, Jeffrey D.
PATENT ASSIGNEE(S): Johns Hopkins University, USA
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004076675	A2	20040910	WO 2004-US5698	20040225

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI

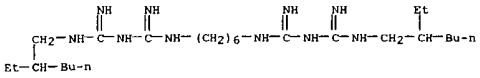
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-450227P P 20030226

IT **1715-30-6**, Alexidine hydrochloride
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(EAAT2 expression promoting; EAAT2 promoter sequences, and methods for increasing EAAT2 expression, screening for glutamate transport modulatory compds., and treating neurol. and psychiatric disorders)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

L4 ANSWER 6 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The invention involves administration of an immunostimulatory nucleic acid alone or in combination with an antimicrobial agent for the treatment or prevention of infectious disease associated with microorganisms in subjects, for preventing antibiotic resistance and for treating and preventing warts. The combination of drugs are administered in synergistic amts. or in various dosages or at various time schedules. The invention also relates to kits and compns. concerning the combination of drugs.

ACCESSION NUMBER: 2004:550533 CAPLUS
DOCUMENT NUMBER: 141:82297
TITLE: Immunostimulatory nucleic acids for the treatment of disorders associated with microorganisms, for preventing antibiotic resistance and for treating and preventing warts
INVENTOR(S): Bratzler, Robert L.; Petersen, Deanna M.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 54 pp., Cont. of U.S. Ser. No. 801,839, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004131628	A1	20040708	US 2003-666733	20030919
PRIORITY APPLN. INFO.:			US 2000-187834P	P 20000308
			US 2001-801839	B1 20010308

OTHER SOURCE(S): MARPAT 141:82297

IT **22573-93-9**, Alexidine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(immunostimulatory nucleic acids for treatment of disorders associated with microorganisms, preventing antibiotic resistance, and treating and preventing warts, and use with other agents)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 7 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Polymerized ionene compds. are known to be effective antimicrobial substances.
The mol. weight can affect the safety and efficacy of ionene compds. In particular, low mol. weight ionene oligomers (<50 repeat units, 1-3 k-daltons) are less toxic than larger polymers with identical compns.

ACCESSION NUMBER: 2004:453185 CAPLUS
DOCUMENT NUMBER: 141:24155
TITLE: Ionene oligomers and polymers
INVENTOR(S): Fitzpatrick, Richard J.; Shackett, Keith K.
PATENT ASSIGNEE(S): Genzyme Corporation, USA
SOURCE: PCT Int. Appl., 113 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046109	A2	20040603	WO 2003-US36938	20031119
WO 2004046109	A3	20040715		

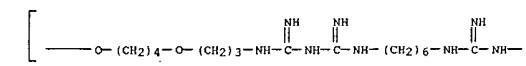
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-427513P P 20021119

IT **443303-61-5P 443303-64-8P 443303-66-0P 443303-67-1P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oligomeric; low mol. weight ionene oligomers and polymers as antimicrobial substances for treatment of infections in patients with)

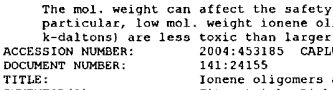
RN 443303-61-5 CAPLUS
CN Poly(oxy-1,4-butanediyloxy-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A



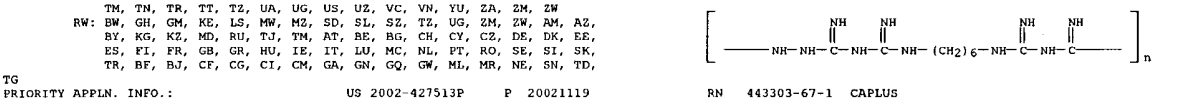
L4 ANSWER 7 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



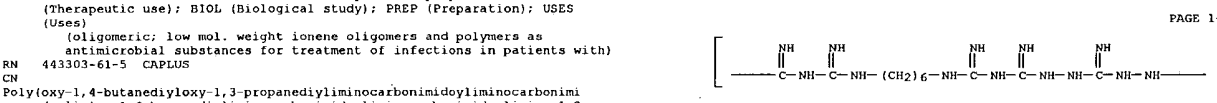
RN 443303-64-8 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,9-nonanediyl) (9CI) (CA INDEX NAME)

RN 443303-66-0 CAPLUS
CN Poly(hydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)



RN 443303-67-1 CAPLUS
CN Poly(hydrazocarbonimidoylhydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

L4 ANSWER 8 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Ionene polymers are used for the treatment or prevention of infections (e.g., pulmonary infections) in cystic fibrosis patients is provided. The method comprises administering to a mammal an effective amount of an ionene polymer to prophylactically or therapeutically treat infections associated with cystic fibrosis. Equimolar amts. of hexamethylenebiscyanoguanidine and 4,9-dioxa-1,12-dodecanediamine were heated in the presence of HCl at 135-145° overnight to give polyionene.

ACCESSION NUMBER: 2004:453042 CAPLUS
DOCUMENT NUMBER: 141:7660
TITLE: Polyionenes for treating infections associated with cystic fibrosis
INVENTOR(S): Fitzpatrick, Richard J.; Shackett, Keith K.
PATENT ASSIGNEE(S): Genzyme Corporation, USA
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004045629	A1	20040603	WO 2003-US36859	20031119
WO 2004045629	C1	20040819		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

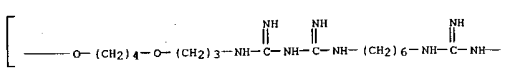
PRIORITY APPLN. INFO.: US 2002-427512P P 20021119

IT **443303-61-5P 443303-64-8P 443303-66-0P 443303-67-1P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers for use in treating infections in cystic fibrosis patients)

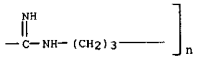
RN 443303-61-5 CAPLUS
CN Poly(oxy-1,4-butanediyloxy-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyl) (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

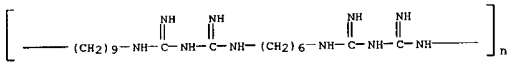
PAGE 1-A



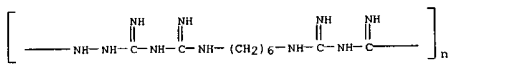
PAGE 1-B



RN 443303-64-8 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,9-nonanediyl) (9CI) (CA INDEX NAME)

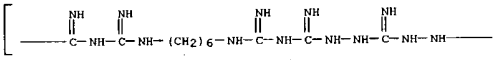


RN 443303-66-0 CAPLUS
CN Poly(hydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)



RN 443303-67-1 CAPLUS
CN Poly(hydrazocarbonimidoylhydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 8 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

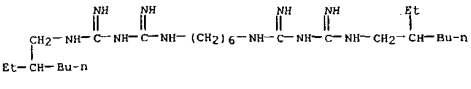
AB Secreted phospholipase B is a proven virulence factor for the pathogenic fungus C. neoformans and exhibits 3 phospholipase activities in the one protein. These are phospholipase B (PLB), lysophospholipase (LPL), and lysophospholipase transacylase (LPTA). Our aim was to investigate the feasibility of using this enzyme as a target for antifungal therapy. We determined in C. neoformans var. grubii strain H99 that 82% of PLB activity was secreted but that 64% of LPL activity and 70% of LPTA activity were cell associated Cell-associated activities (cytosolic and membrane) were further characterized, since it is likely that any fungicidal effect would depend on inhibition of these enzymes. Four com. available compds. with structural similarities to phospholipid substrates were tested as inhibitors. These were alexidine dihydrochloride (compound A), dioctadecyldimethylammonium bromide (compound O), 1,12 bis-(tributylphosphonium)-dodecane dibromide (compound P), and decamethonium dibromide (compound D). The best phospholipase inhibitors (compds. A and P) were also the most potent antifungal agents by the standard broth microdilution test. Compound A was highly selective for secreted and cell-associated PLB activities and showed no inhibition of mammalian phospholipase A2 at 0.25 μM. Compound O, which was specific for secretory and cytosolic LPL and LPTA and membrane-associated PLB, was not antifungal. We conclude that inhibitors of cryptococcal phospholipases can be selective for fungal enzymes and intrinsically antifungal. They also provide tools for assessing the relative importance of the various enzyme activities in virulence. Our results enable further rational structure-function studies to validate the use of phospholipases as antifungal targets.

ACCESSION NUMBER: 2004:374633 CAPLUS
DOCUMENT NUMBER: 141:221517
TITLE: In vitro antifungal activities of inhibitors of phospholipases from the fungal pathogen Cryptococcus neoformans
AUTHOR(S): Ganendren, Ranjini; Widmer, Fred; Singhal, Vatsala; Wilson, Christabel; Sorrell, Tania; Wright, Lesley
CORPORATE SOURCE: Centre for Infectious Diseases and Microbiology, University of Sydney at Westmead, Westmead, 2145, Australia
SOURCE: Antimicrobial Agents and Chemotherapy (2004), 48(5), 1561-1569
CODEN: AMACCQ; ISSN: 0066-4804
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **1715-30-6**, Alexidine dihydrochloride
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(in vitro antifungal activities of inhibitors of phospholipases from the fungal pathogen Cryptococcus neoformans)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

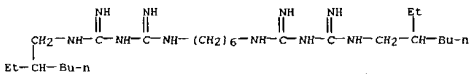
L4 ANSWER 9 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 10 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Spinobulbar muscular atrophy is a neurodegenerative disorder caused by expansion of a CAG triplet repeat sequence encoding a polyglutamine tract in the androgen receptor. It has been shown that the mutant protein is toxic in cell culture and triggers an apoptotic cascade resulting in activation of caspase-3. We developed an assay of caspase-3 activation in
cells expressing the mutant androgen receptor. This assay was used to screen 1040 drugs, most of which are approved for clin. use. Drugs that inhibit polyglutamine-dependent activation of caspase-3 were subjected to *follow-up screens to identify compds. that reproducibly prevent* polyglutamine-induced cytotoxicity. Four drugs satisfied these criteria. Three of these (digitoxin, nerifolin and peruvoside) are structurally and functionally related compds. of the cardiac glycoside class and known inhibitors of Na+K+-ATPase. The fourth compound, suloctidil, is a calcium
channel blocker.
ACCESSION NUMBER: 2004:86275 CAPLUS
DOCUMENT NUMBER: 140:297424
TITLE: A screen for drugs that protect against the cytotoxicity of polyglutamine-expanded androgen *receptor*
AUTHOR(S): Piccioni, Federica; Roman, Benjamin R.; Fischbeck, Kenneth H.; Taylor, J. Paul
CORPORATE SOURCE: National Institute of Neurological Disorders and Stroke, Neurogenetics Branch, National Institutes of Health, Bethesda, MD, 20892-1250, USA
SOURCE: Human Molecular Genetics (2004), 13(4), 437-446
CODEN: HMGEE5; ISSN: 0964-6906
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6**, Alexidine hydrochloride
RL: PAC (Pharmacological activity); BIOL (Biological study)
(screen for drugs that protect against the cytotoxicity of polyglutamine-expanded androgen receptor)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

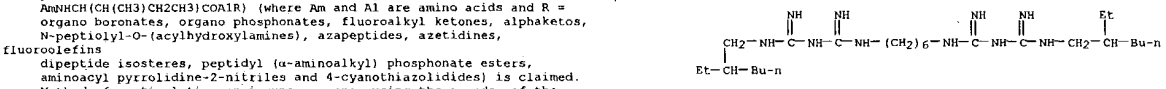
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 11 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method for treating subjects with, inter alia, abnormal cell *proliferation or infectious disease using agents of formula (I,* AmNHCH(CH(CH3)CH2CH3)COA1R) (where Am and A1 are amino acids and R = organo boronates, organo phosphonates, fluoroalkyl ketones, alphaketos, N-peptiolyl-O-(acylhydroxylamines), azapeptides, azetidines, fluoroolefins
dipeptide isosteres, peptidyl (α-aminoalkyl) phosphonate esters, aminoacyl pyrrolidine-2-nitriles and 4-cyanothiazolidides) is claimed. Methods for stimulating an immune response using the compds. of the invention are also claimed. Compns. containing Ile-boroPro compds. are also
provided as are kits containing the compns. The invention embraces the use of
these compds. alone or in combination with other therapeutic agents.
ACCESSION NUMBER: 2004:41226 CAPLUS
DOCUMENT NUMBER: 140:105321
TITLE: *Methods and compositions relating to isoleucine* boroproline compounds
INVENTOR(S): Adams, Sharlene; Miller, Glenn T.; Jesson, Michael I.; Jones, Barry
PATENT ASSIGNEE(S): Point Therapeutics, Inc., USA
SOURCE: PCT Int. Appl., 152 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004004658	A2	20040115	WO 2003-US21405	20030709
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004077601	A1	*20040422*	*US 2003-616694*	*20030709*
PRIORITY APPLN. INFO.:			US 2002-394856P	P 20020709
			US 2002-414978P	P 20021001
			US 2003-466435P	P 20030428

OTHER SOURCE(S): MARPAT 140:105321
IT **22573-93-9**, Alexidine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(therapeutic methods and compns. relating to isoleucine boroproline compds. alone or in combination with other drugs, antibodies, or antigens)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 12 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB An inexpensive, easily available, and convenient method of treating or preventing a virus infection is provided. The present invention relates to a method for the treatment or prevention of virus infections using polybiguanide-based compds. administering a therapeutically effective amount of a compound or a pharmaceutically acceptable salt thereof. The invention relies on the unique biochem. reaction in which polybiguanide-based compds. interfere with the spread of virus within or between organisms. The compns. and formulations described in the present invention are effective means to reduce the infectivity of the human immunodeficiency virus type 1 (HIV-1), and human herpes simplex viruses, and also to kill the causative organisms of many other sexually transmitted diseases (STDs).

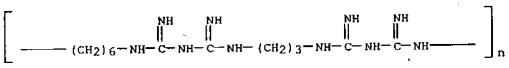
ACCESSION NUMBER: 2004:39582 CAPLUS
DOCUMENT NUMBER: 140:105232
TITLE: Method for the treatment or prevention of virus infection using polybiguanide-based compounds
INVENTOR(S): Labib, Mohamed E.; Stockel, Richard F.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 30 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004009144	A1	20040115	US 2003-435756	20030827
PRIORITY APPLN. INFO.:			US 2003-435756	20030827

OTHER SOURCE(S): MARPAT 140:105232

IT **56307-37-0 56307-42-7 56307-48-3 56328-20-2 646058-92-6 646058-97-1 646058-97-1D**, adamantylamide-terminated **646058-98-2 646059-07-6 646059-16-7**
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method for treatment or prevention of virus infection using polybiguanide-based compds. in combination with other antiviral agents in relation to spermicidal activity and toxicity)

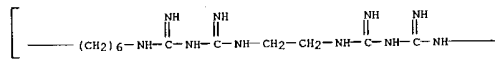
RN 56307-37-0 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)



RN 56307-42-7 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,12-dodecanediyl) (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

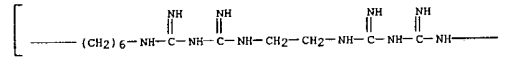


●x HCl

PAGE 1-B

RN 646058-97-1 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)

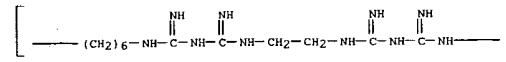
PAGE 1-A



PAGE 1-B

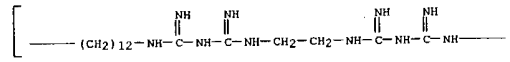
RN 646058-97-1 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 12 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

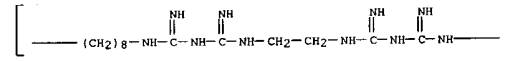
PAGE 1-A



PAGE 1-B

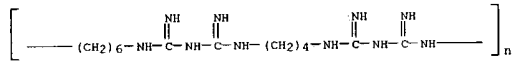
RN 56307-48-3 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,8-octanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

RN 56328-20-2 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,4-butanediyl-iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)



RN 646058-92-6 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), hydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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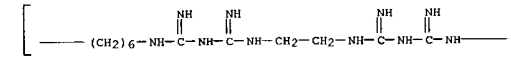
RN 646058-98-2 CAPLUS
CN Propanoic acid, 2-hydroxy-, compd. with poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 646058-97-1
CMF (C12 H26 N10)n
CCI PMS

PAGE 1-A



PAGE 1-B

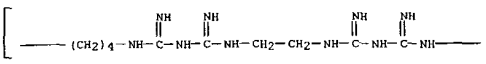
CM 2

CRN 50-21-5
CMF C3 H6 O3

RN 646059-07-6 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,4-butanediyl) (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

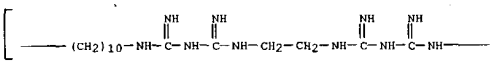
PAGE 1-A



PAGE 1-B

RN 646059-16-7 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,10-decanediyl) (9CI)
(CA INDEX NAME)

PAGE 1-A



PAGE 1-B

L4 ANSWER 13 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The stable, aqueous odor-absorbing and wrinkle controlling composition, is
preferably for use on inanimate surfaces, especially fabrics. The composition
comprises .apprx.0.1-20% solubilized, H2O-soluble, uncomplexed cyclodextrin
and an effective amount of ≥1 ingredient to improve the performance of the composition selected from (1) cyclodextrin compatible surfactant, (2)
cyclodextrin compatible antimicrobial active, and (3) mixts. The composition
also comprises a wrinkle control agent which is fabric lubricant, shape retention polymer, hydrophilic plasticizer, Li salt, or mixts.
Optionally, the composition can contain plasticizer, hydrophilic perfume, low
mol. weight polyols, metallic salts to help control odor, a humectant, etc.
The composition is essentially free of any material that would soil or stain
fabric. The composition is preferably applied as small particle size droplets,
especially from spray containers. The cyclodextrin/surfactant combination,
either alone, or in combination with the other ingredients, provides improved antimicrobial activity.

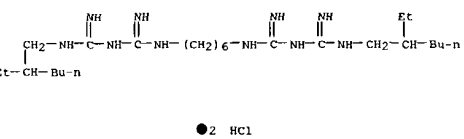
ACCESSION NUMBER: 2003:943785 CAPLUS
DOCUMENT NUMBER: 139:396935
TITLE: Uncomplexed cyclodextrin compositions and method for odor and wrinkle control
INVENTOR(S): Trinh, Toan; Bolich, Raymond Edward, Jr.; Tordil, Helen Bernardo; Mermelstein, Robert; Peffly, Marjorie Mossman; Woo, Ricky Ah-Man; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Rosenbalm, Erin Lynn; Ward, Thomas Edward; Chung, Alex Haejoon; Burns, Anthony James; Campbell, William Tucker; Streutker, Alen David
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: U.S., 31 pp., Cont.-in-part of U.S. Ser. No. 871,119.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6656923	B1	20031202	US 1998-67241	19980427
US 5955093	A	19990921	US 1997-871119	19970609
WO 9856890	A1	19981217	WO 1998-US12160	19980609
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 988364	A1	20000329	EP 1998-926562	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002505720	T2	20020219	JP 1999-503224	19980609
WO 9955814	A1	19991104	WO 1998-US25796	19981208
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9918046	A1	19991116	AU 1999-18046	19981208
AU 740341	B2	20011101		
BR 9815835	A	20001226	BR 1998-15835	19981208
TR 200003126	T2	20010122	TR 2000-200003126	19981208

PRIORITY APPLN. INFO.: US 1997-871119 A2 19970609
US 1997-871042 A 19970609
US 1997-871339 A 19970609
US 1997-871576 A 19970609
US 1998-67182 A 19980427
US 1998-67184 A 19980427
US 1998-67240 A 19980427
US 1998-67241 A 19980427
US 1998-67243 A 19980427
US 1998-67385 A 19980427
US 1998-67387 A 19980427
US 1998-67639 A 19980427
WO 1998-US12160 W 19980609
WO 1998-US25796 W 19981208

IT **1715-30-6**, 1,6-Bis-(2-ethylhexylbiguanidohexane)dihydrochloride
114598-63-9 118953-06-3 217651-12-2
247085-68-3 247085-69-4 247085-70-7
247085-72-9
RL: TEM (Technical or engineered material use); USES (Uses)
(uncomplexed cyclodextrin compns. for odor and wrinkle control)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

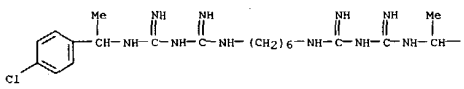


●2 HCl

L4 ANSWER 13 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

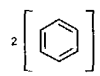
PAGE 1-A

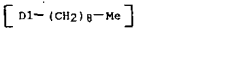


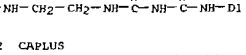
●2 HCl

PAGE 1-B

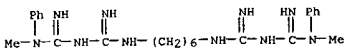
RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)- (9CI) (CA INDEX NAME)







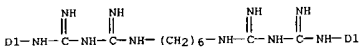
RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 247085-68-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

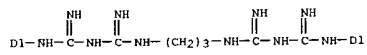
2 (D1—Cl)



●2 HCl

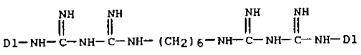
RN 247085-69-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)

2 (D1—Bu-n)



REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

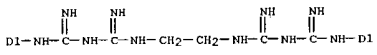
2 (D1—Cl)



●4 HCl

RN 247085-70-7 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(butylphenyl)-3,8-diimino- (9CI) (CA INDEX NAME)

2 (D1—Bu-n)



RN 247085-72-9 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-bis(butylphenyl)-3,9-diimino- (9CI) (CA INDEX NAME)

AB A consumable film adapted to adhere to and dissolve in the oral cavity, comprises at least one water-soluble polymer, a taste-masking effective amount of a sweetener, and a pharmaceutically active agent having a sufficiently unpleasant taste that it is desirably masked by the sweetener. For example, a buccal film was formulated containing dextromethorphan·HBr 22.7322, Amberlite IRP69 24.2477, xanthan gum 0.1165, locust bean gum 0.1365, carrageenan 0.5851, pullulan 31.2066, K sorbate 0.1170, menthol 3.908, peppermint flavor 0.3908, cherry flavor 0.3908, sour cherry 3.3871, Warm Sensation 0.8362, artificial masking flavor 0.6273, Succulence 0.3908, FD&C Red Number 40 0.0149, polysorbate 80 0.6826, Atmos 300 0.6826, glycerin 2.9256, mannitol 3.9008, and sucralose 2.7279 %.

ACCESSION NUMBER: 2003:892252 CAPLUS
DOCUMENT NUMBER: 139:354513
TITLE: Fast dissolving orally consumable films containing a sweetener
INVENTOR(S): Kulkarni, Neema; Kumar, Lori D.; Sorg, Albert
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 395,104.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

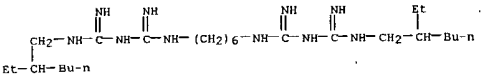
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003211136	A1	20031113	US 2003-423398	20030425
US 2003054034	A1	20030320	US 1999-395104	19990914
US 6596298	B2	20030722		
US 2001022964	A1	20010920	US 2001-836474	20010418
US 2003008008	A1	20030109	US 2002-81018	20020221
US 2003206941	A1	20031106	US 2003-418368	20030417
US 2004136922	A1	20040715	US 2003-684778	20031014
WO 2004096192	A1	20041111	WO 2004-IB1270	20040413

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

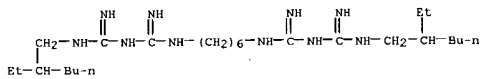
PRIORITY APPLN. INFO.: US 1998-101798P P 19980925
US 1999-395104 A2 19990914
US 2002-81018 B1 20020221
US 2003-423398 A 20030425

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

L4 ANSWER 14 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(fast dissolving buccal films contg. sweeteners for bitter taste drugs)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical compns. for oral cavity containing stannous compds. and polyphosphates and addnl. drugs for promoting whole body health)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to promoting whole body health by using topical oral compns. comprising an antimicrobial agent, in particular stannous salts, such as stannous fluoride and stannous chloride in combination with a polymeric mineral surface active agent such as condensed polyphosphates or polyphosphonates. In addition to providing a spectrum of intraoral benefits, topical administration of the present compns. to the oral cavity surprisingly provides benefits to systemic health. In particular, the present invention relates to methods of using the present topical oral compns. to reduce the risk in development of cardiovascular disease, stroke, atherosclerosis, diabetes, severe respiratory infections, premature births and low birth weight, post-partum dysfunction in neurol. and developmental functions, and associated increased risk of mortality. For example, a mouthwash composition contained flavor 0.05, FD&C Blue number 1 0.02, Na saccharin 0.06, glycerin 7.5, stannous chloride 0.2, cetylpyridinium chloride 0.045, polyphosphonate 0.5, Na gluconate, ethanol 14.46, and water balance to 100 %.

ACCESSION NUMBER: 2003:874766 CAPLUS
DOCUMENT NUMBER: 139:354473
TITLE: Promoting whole body health with topical oral compositions containing antimicrobials
INVENTOR(S): Doyle, Matthew Joseph; Hunter-Rinderle, Stephen Joseph; Glandorf, William Michael; White, Donald James
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S. Ser. No. 39,620.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

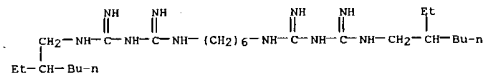
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003206874	A1	20031106	US 2003-454843	20030605
US 5939052	A	19990817	US 1996-754577	19961121
US 6350436	B1	20020226	US 1999-451420	19991130
US 6555094	B1	20030429	US 2000-710440	20001110
US 2002106336	A1	20020808	US 2001-39620	20011024
US 6667027	B2	20031223		
US 2003152527	A1	20030814	US 2003-351205	20030124
US 6821507	B2	20041123		
PRIORITY APPLN. INFO.:			US 1996-754577	A2 19961121
			US 1998-203216	B2 19981130
			US 1999-451420	A3 19991130
			US 2000-607240	A2 20000630
			US 2000-710440	A2 20001110
			US 2001-39620	A2 20011024
			US 1999-165350P	P 19991112

L4 ANSWER 16 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A shred resistant, ultra-high mol. weight polyethylene, micromesh interproximal device produced by fibrillating and slitting stretched polyethylene film having a tensile-strength from between about 0.7 GPa and about 5GPa, where said polyethylene has an intrinsic viscosity of from between about 5 and about 50 dL/g and wherein said resultant micromesh tape is coated with an oral care substance at from between about 10 and about 120 mg/yd. Preparation of a polyethylene dental floss coated with Ultramulsiionl 10/2.5 id disclosed.

ACCESSION NUMBER: 2003:656531 CAPLUS
DOCUMENT NUMBER: 139:202558
TITLE: Micromesh interproximal devices comprising ultra-high molecular weight polyethylene
INVENTOR(S): Brown, Dale G.; Hill, Ira D.
PATENT ASSIGNEE(S): International Tape Partners L.L.C., USA
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003068173	A1	20030821	WO 2002-US39402	20021211
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1474092	A1	20041110	EP 2002-784770	20021211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2002-73682	A 20020211
			WO 2002-US39402	W 20021211

IT **22573-93-9**, Alexidine
RL: NUU (Other use, unclassified); USES (Uses)
(micromesh interproximal devices comprising ultra-high mol. weight polyethylene)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 16 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

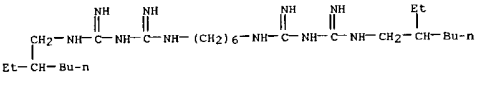
L4 ANSWER 17 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Cereal β(1→3) β (1→4) glucan is used as a film or coating agent to produce clear, edible, biodegradable, delivery, lubricating, and protecting agents. Cereal β(1→3) β (1→4) glucans are distinctive polymers of glucose differentiated from other polymers by not only their source but also their physicochem. properties. The β(1→3) β (1→4) forms a matrix to sequester other materials, such as pharmaceutical, medical and therapeutic agents, flavors, fragrances. The technol. has applications to essential oils and non-aqueous materials that are rendered deliverable by the β(1→3) β (1→4) glucan. The β(1→3) β (1→4) glucan films described may be consumed whereby they dissolve in the mouth in a controlled manner and may be used for the delivery of pharmaceutical, medical or confectionery products.

ACCESSION NUMBER: 2003:511412 CAPLUS
DOCUMENT NUMBER: 139:84365
TITLE: Cereal beta glucan compositions, methods of preparation and uses thereof
INVENTOR(S): Redmond, Mark J.; Fielder, David A.
PATENT ASSIGNEE(S): Ceapro Inc., Can.
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003054077	A1	20030703	WO 2002-CA1896	20021211
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1453909	A1	20040908	EP 2002-782583	20021211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			US 2001-338649P	P 20011211
			WO 2002-CA1896	W 20021211

IT **22573-93-9**, Alexidine
RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antimicrobial; preparation and uses of cereal beta glucan comps. for delivery of pharmaceutical, medical or confectionery products)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 17 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



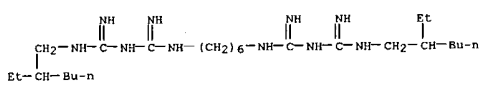
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 18 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Material for filling dental root canals is disclosed. Material for dental root canals filling is made of the cement base composition that includes 2CaO-SiO2 and 3CaO-SiO2, 3CaO-Al2O3, fluorine and phosphorus and surface-active substances (SAS), radio-contrast filler, exchanger. Components are mixed at certain quant. ratio. Components are mixed with liquid consisting of water, SAS and plasticizer. Powder : liquid ratio corresponds to 2.0-3.0:1. Filling material is of high penetration value, high adhesion to dentin, low washing out capacity, prolonged bactericidal capacity and provides remineralization of solid dental tissues. Method ensures higher efficiency of filling.

ACCESSION NUMBER: 2003:456167 CAPLUS
DOCUMENT NUMBER: 139:169372
TITLE: Material for filling dental root canals
INVENTOR(S): Vlasova, M. S.; Dmitriev, L. A.
PATENT ASSIGNEE(S): Obshchestvo S Ogranichennoi Otvetstvennost'yu "Raduga-R", Russia
SOURCE: Russ., No pp. given
CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2197940	C1	20030210	RU 2001-122097	20010809
PRIORITY APPLN. INFO.:			RU 2001-122097	20010809

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(material for filling dental root canals)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention includes a method for reducing viral, bacterial, protozoan, fungal and other parasitic contamination from a biol. solution using an anti-pathogenic composition comprising a quaternary ammonium compound The anti-pathogenic composition further comprises a bisguanidine compound Biol. solns. include, but are not limited to, solns. comprising blood, a blood component, cell culture or a component of a cell culture. A medical device is provided comprising at least a surface treated with an anti-pathogenic composition of the present invention or containing at least an anti-pathogenic composition of present invention. Also, an anti-pathogenic composition is provided for use in disinfecting fluids and biol. tissues and surfaces contaminated with fluids and/or biol. tissues, which comprises an anti-pathogenic amount of at least one quaternary ammonium compound in association with an acceptable carrier. There is provided a method for inhibiting in vitro or ex vivo infection or replication of human immunodeficiency virus in a biol. fluid, comprising treating said biol. fluid with an effective inhibiting amount of a bisguanidine compound or a derivative thereof, and at least one quaternary ammonium compound in combination with a pharmaceutically carrier, such as DMSO.

ACCESSION NUMBER: 2003:417546 CAPLUS
DOCUMENT NUMBER: 139:12387
TITLE: Anti-pathogenic composition containing a quaternary ammonium compound useful in blood preservation
INVENTOR(S): Whitaker, Barbee I.; Busnel, Rene-Guy
PATENT ASSIGNEE(S): Altachem Pharma Ltd., Can.
SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

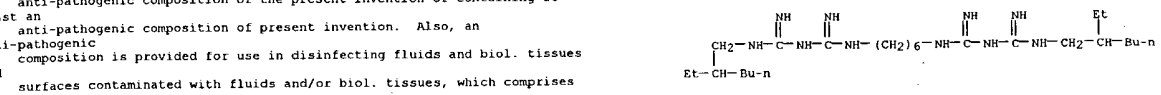
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043418	A1	20030530	WO 2002-CA1793	20021121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1448052	A1	20040825	EP 2002-781003	20021121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				

PRIORITY APPLN. INFO.: US 2001-331806P P 20011121
WO 2002-CA1793 W 20021121

L4 ANSWER 19 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

IT **22573-93-9D**, Bisguanidine, derivs.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-pathogenic compns. containing bisguanidine and quaternary ammonium compds. for disinfection of biol. materials and surfaces)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 20 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB An oral composition comprises a particulate amorphous silica and a cationic antibacterial agent characterized in that the particles of said amorphous silica have a polyether glycol deposited thereon. The silica used in the composition of the invention has a good compatibility with the cationic antibacterial agent. A toothpaste contained glycerin 18.0, silica abrasive 16.0, HPMC 3.6, chlorhexidine digluconate 1.0, flavor 1.0, Poloxamer 338 2.0, NaF 0.23, and deionized water qs.

ACCESSION NUMBER: 2003:356210 CAPLUS
DOCUMENT NUMBER: 138:358221
TITLE: Dentifrice compositions containing amorphous silica and antibacterial agents
INVENTOR(S): Stanier, Peter William; Stebbing, Simon Richard
PATENT ASSIGNEE(S): Ineos Silicas Limited, UK
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037285	A1	20030508	WO 2002-GB4424	20021001
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1439814	A1	20040728	EP 2002-767677	20021001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2004241108	A1	20041202	US 2004-490486	20040323

PRIORITY APPLN. INFO.: GB 2001-26244 A 20011101
WO 2002-GB4424 W 20021001

OTHER SOURCE(S): MARPAT 138:358221

IT **22573-93-9**, Alexidine
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. containing amorphous silica and antibacterial agents)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 21 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A method for inhibiting the binding of a biguanide antimicrobial agent, e.g., poly(hexamethylene) biguanide or alexidine, from aqueous solution to a hydrogel contact lens comprises providing about 0.0001-10% of cyclodextrin in the solution cyclodextrin which is sufficient to inhibit sorption of the biguanide antimicrobial to a hydrogel.

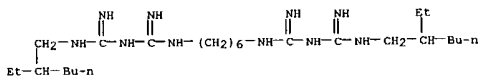
ACCESSION NUMBER: 2003:154290 CAPLUS
DOCUMENT NUMBER: 138:193341
TITLE: Composition and method for inhibiting uptake of biguanide antimicrobials by hydrogels
INVENTOR(S): Xia, Erning; Smerbeck, Richard V.; Franklin, Rebecca
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015835	A1	20030227	WO 2002-US25935	20020814
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6528464	B1	20030304	US 2001-932356	20010817
EP 1416976	A1	20040512	EP 2002-757129	20020814
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003096717	A1	20030522	US 2002-288637	20021105
PRIORITY APPLN. INFO.:			US 2001-932356 A	20010817
			WO 2002-US25935 W	20020814

IT **1715-30-6**, Alexidine hydrochloride **22573-93-9**, Alexidine
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cyclodextrin for inhibiting hydrogel uptake of biguanide antimicrobials from aqueous solution by polymeric hydrogels)

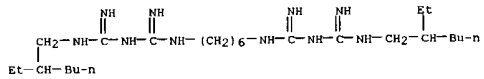
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 22 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Linear, polymeric biguanides or salts thereof wherein the polymeric chain is terminated both at the cyanoguanidine and the amino end groups by either a C2-C140 primary or secondary amine or corresponding cyanoguanidine which is optionally substituted with a halogen, nitro, hydroxy, carbonyl, carboxy, mercapto, sulfoxide, sulfone, sulfonate, sulfide, ether, etc. The di end-cap polymeric biguanides have a high level of biocidal activity accompanied by a low level of toxicity to host organisms and therefore useful as biocides. Thus, a hexamethylenebis(cyanguanidine)-triethylene glycoldiamine copolymer was prepared and subsequently end-capped with n-dodecylamine and 2-cyanoguanidine thiazole.

ACCESSION NUMBER: 2003:118633 CAPLUS
DOCUMENT NUMBER: 138:170681
TITLE: Double end-capped polymeric biguanides as biocides for disinfection and medical applications
INVENTOR(S): Stockel, Richard
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

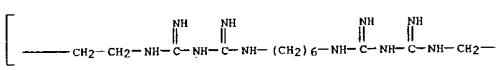
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003032768	A1	20030213	US 2001-908124	20010718
PRIORITY APPLN. INFO.:			US 2001-908124	20010718

IT **127092-89-1DP**, Hexamethylenebis(cyanguanidine)-triethylene glycoldiamine copolymer, SRU, reaction products with monoamine and monocyanoguanidine
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of double end-capped polymeric biguanides as biocides for disinfection and medical applications)

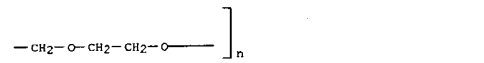
RN 127092-89-1 CAPLUS
CN Poly(oxy-1,2-ethanediyloxy-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyl) (9CI) (CA INDEX NAME)

L4 ANSWER 22 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



L4 ANSWER 23 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A novel gypsum board having antifungal properties is disclosed. The board comprises a gypsum core, front and back paper facings and an antifungal agent effective at inhibiting fungal growth. A preferred antifungal agent is cetyl pyridinium chloride. The antifungal agent can be present in the gypsum core and/or on one or both of the paper facings. In addition, the antifungal agent may be encapsulated in a material that releases the antifungal agent over time and/or upon exposure to moisture. Also disclosed are methods for preparing the aforementioned antifungal gypsum board.

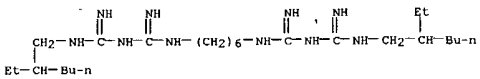
ACCESSION NUMBER: 2003:118076 CAPLUS
DOCUMENT NUMBER: 138:141294
TITLE: Compatible antifungal agents and incorporation in gypsum board in manufacture
INVENTOR(S): Capps, Charles L.
PATENT ASSIGNEE(S): Temple-Inland Forest Products Corporation, USA
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003012218	A1	20030213	WO 2002-US24765	20020801
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1421242	A1	20040526	EP 2002-768422	20020801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003031898	A1	20030213	US 2002-244984	20020917
US 6680127	B2	20040120		
WO 2004038120	A1	20040506	WO 2002-US29447	20020917
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-310442P	P 20010803
			US 2002-210680	A2 20020801
			WO 2002-US24765	W 20020801

L4 ANSWER 23 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

IT **22573-93-9**, Alexidine
RL: MOA (Modifier or additive use); USES (Uses)
(antifungal agent; compatible antifungal agents and incorporation in gypsum core and/or paper facings in manufacture of gypsum boards)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 24 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A method and composition for inhibiting the binding of a biguanide disinfectant in aqueous solution to a low-d. polyethylene solid, e.g., bottles, is described using 0.0001-10% by weight of cyclodextrin. A biguanide aqueous solution is useful for cleaning and disinfecting contact lenses. For example, the uptake of Alexidine-HCl by low-d. polyethylene bottles was inhibited by 29.2% and 58.6% using 0.1% and 0.3% β-cyclodextrin in the cleansing solution

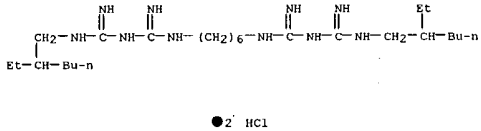
ACCESSION NUMBER: 2003:92328 CAPLUS
DOCUMENT NUMBER: 138:142572
TITLE: Composition and method for inhibiting uptake of biguanide disinfectants by polyethylene
INVENTOR(S): Xia, Erning; Smerbeck, Richard V.; Denick, John, Jr.
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6514528	B1	20030204	US 2001-916455	20010727
WO 2003011350	A2	20030213	WO 2002-US23021	20020718
WO 2003011350	A3	20030925		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1414303	A2	20040506	EP 2002-750183	20020718
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004536668	T2	20041209	JP 2003-516580	20020718
TW 548261	B	20030821	TW 2002-91116365	20020723
PRIORITY APPLN. INFO.:			US 2001-916455	A 20010727
			WO 2002-US23021	W 20020718

IT **1715-30-6**, Alexidine hydrochloride
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cyclodextrin for inhibition of biguanide uptake by polyethylene from aqueous disinfectant solns.)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 25 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

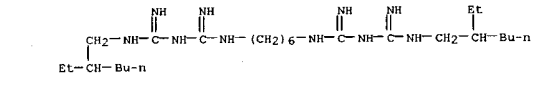
AB Compns. for assisting in the removal of human cerumen are disclosed. The compns. may include bicarbonate and an otol. acceptable vehicle; a cerumenolytically acceptable enzyme and an otol. acceptable vehicle; or bicarbonate, a cerumenolytically acceptable enzyme, and an otol. acceptable vehicle.

ACCESSION NUMBER: 2003:42066 CAPLUS
DOCUMENT NUMBER: 138:112442
TITLE: Compositions comprising bicarbonates and enzymes for removing human cerumen
INVENTOR(S): Cagle, Gerald D.; Owen, Geoffrey R.; Ridruejo, Nuria Jimenez; Wall, G. Michael
PATENT ASSIGNEE(S): Alcon, Inc., Switz.
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003003976	A2	20030116	WO 2002-US19756	20020621
WO 2003003976	A3	20030530		
W: AU, BR, CA, CN, JP, KR, MX, NO, NZ, PH, PL, SG, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1337228	A2	20030827	EP 2002-744528	20020621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
BR 2002010493	A	20040622	BR 2002-10493	20020621
US 2004126436	A1	20040701	US 2003-705441	20031110
PRIORITY APPLN. INFO.:			US 2001-302959P	P 20010703
			WO 2002-US19756	W 20020621

IT **22573-93-9D**, Alexidine, salts
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(compns. comprising bicarbonates and enzymes for removing human cerumen)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 26 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention relates to oral care compns. which provide a means to deliver actives useful in the prevention, treatment and/or management of dental and related tissue conditions, including dental caries, dental cavities, microbial flora, tartar, periodontal and related gum disease. In addition, the present invention may be used in the healthy maintenance of teeth and gums of humans and pets. The present compns. are useful to whiten teeth and otherwise favorably impact the cosmetic appeal of the teeth and gums of a subject or patient. The inclusion of effective amts. of colostrum in dental care compns. provides an unexpectedly high efficacy of such formulations in inhibiting, reducing or otherwise preventing microbial growth, dental caries, plaque, cavities and gum disease, including periodontal disease. The use of colostrum with other enzymes, e.g., lysozyme, lactoperoxidase, dextranase, mutanase, cellulase, amyloglucosidase, papain, bromelin, lactoferrin, etc., represents a particularly preferred embodiment for use in the present invention because of the unexpected antimicrobial activity exhibited by the enzyme combination. For example, chewable dentifrice tablets were prepared containing (by weight) bromochlorophene 0.01-1%, enoxolone 0.1-3%, sodium bicarbonate 1-5%, silica 1-5%, sorbitol 45-60%, xylitol 5-40%, liver powder 1-15%, methionine/cysteine 0.1-3%, Coloring 5 0.001-0.1%, papain/bromelin 0.01-1%, glucose oxidase/lactoperoxidase 0.01-1%, amyloglucosidase/invertase 0.01-1%, and lysozyme/lactoferrin 0.01-1%.

ACCESSION NUMBER: 2003:5224 CAPLUS
DOCUMENT NUMBER: 138:61095
TITLE: Dentifrice compositions containing antimicrobial enzymes
INVENTOR(S): Dana, Frederic
PATENT ASSIGNEE(S): Fr.
SOURCE: U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S. Ser. No. 872,829, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

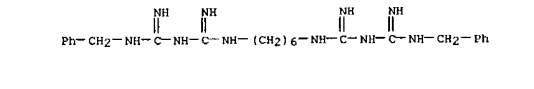
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003003059	A1	20030102	US 2001-4111	20011115
FR 2822700	A1	20021004	FR 2001-4614	20010403
WO 2003043517	A2	20030530	WO 2002-US36659	20021114
WO 2003043517	A3	20030918		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			FR 2001-4614	A 20010403

L4 ANSWER 26 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

			US 2001-872829	B2 20010601
			US 2001-4111	A 20011115

IT **479353-00-9**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(antimicrobial agent; ingestible dentifrice compns. containing colostrum with other antimicrobial enzymes)

RN 479353-00-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 27 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention provides novel broad spectrum antiseptic compds., comprising a basic reagent (such as a guanidium compound, a biguanide, a bipyridine, aphenoxide or an alkyl oxide) bound to a dye, that further have properties that allow them to be coated/impregnated into polymer surfaces. Methods for coating these antiseptic compds. onto medical devices especially in-dwelling medical devices to prevent the growth of pathogens in such devices and hence, to prevent infection to patients via such devices are provided. The invention also provides antiseptics that are useful as general surface disinfectants and sterilizers, fluid disinfectants and biocide preservatives.

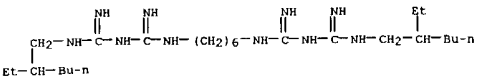
ACCESSION NUMBER: 2002:813856 CAPLUS
DOCUMENT NUMBER: 137:304750
TITLE: Antiseptic composition with broad spectrum antimicrobial activity containing an active compound bound to a dye
INVENTOR(S): Raad, Issam; Hanna, Hend A.; Nabulsi, Nabeel
PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002082907	A1	20021024	WO 2002-US781	20020111
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2434254	AA	20021024	CA 2002-2434254	20020111
US 2003078242	A1	20030424	US 2002-44842	20020111
EP 1349455	A1	20031008	EP 2002-741629	20020111
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2001-261447P	P 20010112
			US 2001-316165P	P 20010830
			WO 2002-US781	W 20020111

IT **22573-93-9**, Alexidine
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiseptic composition containing bound to dye)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 27 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

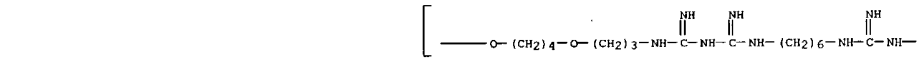
L4 ANSWER 28 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method of using ionene polymers for the treatment fo mucositis and oral mucositis in mammals is provided. The method comprises administering to a
mammal an effective amount of an ionene polymer to prophylactically or therapeutically treat mucositis. An example polymer prepared was poly(hexamethylenebiscyanoguanidine-alt-4,9-dioxadodecane). Also an example showed that polyionenes are effective in treating mucositis in a hamster model following irradiation therapy.

ACCESSION NUMBER: 2002:555360 CAPLUS
DOCUMENT NUMBER: 137:103933
TITLE: Ionene polymers and their use in treating mucositis
INVENTOR(S): Fitzpatrick, Richard; Goddard, Philip J.; Barker, Robert H., Jr.; Shackett, Keith K.; Klinger, Jeffrey D.
PATENT ASSIGNEE(S): Geltex Pharmaceuticals, Inc., USA; Genzyme Corp.
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056895	A2	20020725	WO 2002-US1118	20020117
WO 2002056895	A3	20040219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003021761	A1	20030130	US 2002-51766	20020117
US 2003031644	A1	20030213	US 2002-51765	20020117
PRIORITY APPLN. INFO.:			US 2001-262586P	P 20010118

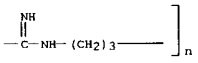
IT **443303-61-5P 443303-64-8P 443303-66-0P 443303-67-1P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers and their use in treating mucositis)
RN 443303-61-5 CAPLUS
CN Poly(oxy-1,4-butanediyloxy-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A

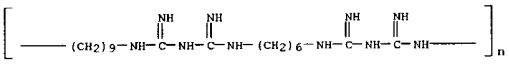


L4 ANSWER 28 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

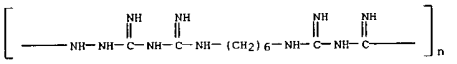
PAGE 1-B



RN 443303-64-8 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,9-nonanediyl) (9CI) (CA INDEX NAME)

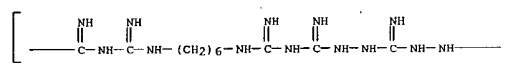


RN 443303-66-0 CAPLUS
CN Poly(hydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)



RN 443303-67-1 CAPLUS
CN Poly(hydrazocarbonimidoylhydrazocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoyl) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

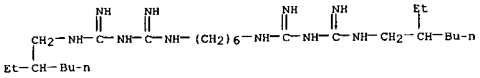
L4 ANSWER 29 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method for inhibiting for inhibiting the ability of a biomaterial to sorb antimicrobials comprising binding a cationic polysaccharide to the surface of said biomaterial. AFM results showed that Polymer JR had an effect on the morphol. of contact lens surface, indicating a thin film covering with large multishaped and sized voids on the anterior and posterior side of the lens.

ACCESSION NUMBER: 2002:465855 CAPLUS
DOCUMENT NUMBER: 137:37729
TITLE: Prevention of preservative uptake into biomaterials with cationic polysaccharides
INVENTOR(S): Salamone, Joseph C.; Ammon, Daniel M., Jr.; Hu, Zhenze
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002047736	A2	20020620	WO 2001-US46974	20011206
WO 2002047736	A3	20020829		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002114729	A1	20020822	US 2000-738808	20001215
US 6805836	B2	20041019		
TW 528607	B	20030421	TW 2001-90125225	20011012
CA 2431719	AA	20020620	CA 2001-2431719	20011206
AU 2002033984	A5	20020624	AU 2002-33984	20011206
EP 1346021	A2	20030924	EP 2001-984989	20011206
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001016683	A	20040302	BR 2001-16683	20011206
JP 2004515813	T2	20040527	JP 2002-549304	20011206
PRIORITY APPLN. INFO.:			US 2000-738808	A 20001215
			WO 2001-US46974	W 20011206

IT **22573-93-9**, Alexidine
RL: MOA (Modifier or additive use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prevention of preservative uptake into biomaterials with cationic polysaccharides)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 30 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

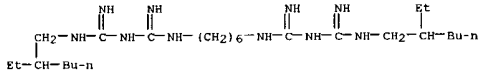
AB Compns. effective as disinfecting solns. for ophthalmic devices such as contact lenses are provided. The compns. include a microbicide, preferably polyhexamethylene biguanide or alexidine, and a water soluble salt of a bis-aminopolyol, preferably 1,3-bis(tris[hydroxymethyl]methylamino)propane, as a buffering agent. Borate and Bis-Tris propane showed superior activity with a polyhexamethylenebiguanide solution

ACCESSION NUMBER: 2002:428616 CAPLUS
DOCUMENT NUMBER: 137:10977
TITLE: Aqueous ophthalmic disinfecting systems containing biguanides and buffers
INVENTOR(S): Mowrey-McKee, Mary Flowers; Ajello, Marc Lee
PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002043482	A2	20020606	WO 2001-EP13835	20011127
WO 2002043482	A3	20021114		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2430127	AA	20020606	CA 2001-2430127	20011127
TW 496745	B	20020801	TW 2001-90129253	20011127
EP 1339278	A2	20030903	EP 2001-984771	20011127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001015693	A	20030909	BR 2001-15693	20011127
JP 2004525087	T2	20040819	JP 2002-545472	20011127
US 2002122831	A1	20020905	US 2001-997099	20011129
PRIORITY APPLN. INFO.:			US 2000-253757P	P 20001129
			WO 2001-EP13835	W 20011127

OTHER SOURCE(S): MARPAT 137:10977
IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aqueous ophthalmic disinfecting systems containing biguanides and buffers)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 30 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 31 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Guanidine and biguanidine derivs. of formulas I-V [X = B or CRB; R = H or alkyl and B = (un)substituted alkyl, alkyl-X1-alkyl where X1 = O, S, sulfoxide, tris(2-aminoethyl)amine, N optionally substituted with NHC(NH)NHC(NH)A, (un)substituted heterocycle, (un)substituted-aryl, -cyclohexane, etc.; A = independently H, CN, amino, quinolone, azaquinolone, morpholine, (un)substituted piperazine, (un)substituted aminoadamantane, etc.; Z = C(NH)NHC(NH)A; X2 = (un)substituted-alkyl, -aryl, -heterocycle, or bond; X3 = (CH2)n where n = 1-5; Y1 and Y2 independently = (un)substituted-alkyl, -aryl, -heterocycle, or bond; T = H, alkyl, (un)substituted-aryl, -heterocycle; m = 0-12; p = 0-8] are prepared and disclosed as anti-viral and anti-bacterial agents. Thus, VI was prepared via substitution of 7-chloro-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-quinoline carboxylic acid with piperazine and subsequent addition to hexamethylene bis(cyanoguanidine). VI was found active against HIV at concns. greater than 3.2μg/mL in peripheral blood mononuclear cell assay. Also disclosed are pharmaceutical compns. containing I-V as an active ingredient, and anti-viral and anti-bacterial methods utilizing such compds.

ACCESSION NUMBER: 2002:171686 CAPLUS
DOCUMENT NUMBER: 136:232324
TITLE: Preparation of antiviral and antimicrobial substituted guanidines or biguanidines
INVENTOR(S): Shetty, B. Vithal
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 148 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002017916	A1	20020307	WO 2001-US26150	20010822
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6699989	B1	20040302	US 2000-649014	20000828
AU 2001086604	A5	20020313	AU 2001-86604	20010822
EP 1406619	A1	20040414	EP 2001-960061	20010822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

L4 ANSWER 31 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

US 2004132993	A1	20040708	US 2003-720441	20031125
PRIORITY APPLN. INFO.:			US 2000-649014	A1 20000828
			WO 2001-US26150	W 20010822

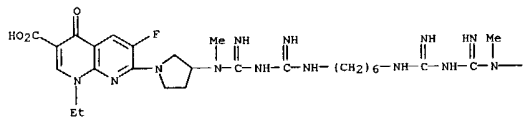
OTHER SOURCE(S): MARPAT 136:232324

IT **402930-16-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of antiviral and antimicrobial substituted guanidine or biguanidines)

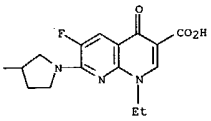
RN 402930-16-9 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7,7'-[(1,3,12,14-tetraimino-2,4,11,13-tetraazatetradecane-1,14-diyl)bis[(methylimino)-3,1-pyrrolidinediyl]]bis[1-ethyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A coating composition, in both its uncrosslinked and crosslinked forms, for use in delivering a medicament from the surface of a medical device positioned in vivo is disclosed. Once crosslinked, the coating composition provides a gel matrix adapted to contain the medicament in a form that permits the medicament to be released from the matrix in a prolonged, controlled, predictable and effective manner in vivo. A composition includes a polyether monomer, such as an alkoxy poly(alkylene glycol), a carboxylic acid-containing monomer, such as (meth)acrylic acid, a photoderivatized monomer, and a hydrophilic monomer such as acrylamide. Acrylamide-methacrylic acid-methoxy polyethylene glycol monomethacrylate-N-[3-(4-benzoylbenzamido)propyl]methacrylamide copolymer was prepared (I). Stainless steel rods (2 cm) were dipped in a solution of 50 mg/mL I in isopropanol, air dried, subjected to UV light. The coated rods were incubated in a solution of 100 mg/mL chlorhexidine diacetate for 30 min. at room temperature Release of chlorhexidine from rods was measured by placing the rod on agar surface that was incubated with Staphylococcus epidermidis.

ACCESSION NUMBER: 2002:142560 CAPLUS
DOCUMENT NUMBER: 136:205474
TITLE: Coating compositions for delivering a medicament from the surface of a medical device
INVENTOR(S): Chudzik, Stephen J.; Everson, Terrence P.; Amos, Richard A.
PATENT ASSIGNEE(S): Surmodics, Inc., USA
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002013871	A2	20020221	WO 2001-US41309	20010709
WO 2002013871	A3	20020530		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2419379	AA	20020221	CA 2001-2419379	20010709
AU 2001081304	A5	20020225	AU 2001-81304	20010709
US 2002041899	A1	20020411	US 2001-901425	20010709
EP 1309360	A2	20030514	EP 2001-959785	20010709
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004520088	T2	20040708	JP 2002-519009	20010709
PRIORITY APPLN. INFO.:			US 2000-225465P	P 20000815

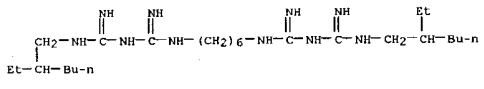
L4 ANSWER 32 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

WO 2001-US41309 W 20010709

IT **1715-30-6**, Alexidine dihydrochloride
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coating compns. for delivering medicament from surface of medical device)

RN 1715-30-6 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 33 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention relates to promoting whole body health in humans and animals by using topical oral compns. comprising a safe and effective amount of an antimicrobial agent in admixt. with a pharmaceutically acceptable carrier, said compns. being effective in controlling bacterial-mediated diseases and conditions present in the oral cavity and in inhibiting the spread into the bloodstream of pathogenic oral bacteria, associated bacterial toxins and endotoxins, and resultant inflammatory cytokines and mediators.
The present invention also encompasses methods of use of these compns. by topically applying to the oral cavity, a safe and effective amount of an antimicrobial agent to promote and/or enhance whole body health in humans and other animals. A dual phase stannous fluoride dentifrice was prepared

ACCESSION NUMBER: 2002:31268 CAPLUS
DOCUMENT NUMBER: 136:90976
TITLE: Topical oral compositions containing antimicrobial agents for promoting whole body health
INVENTOR(S): Doyle, Matthew Joseph; Hunter-Rinderle, Stephen Joseph; Singer, Robert Ernest, Jr.
PATENT ASSIGNEE(S): Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

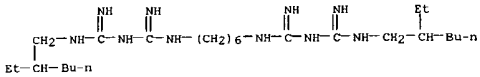
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002128	A2	20020110	WO 2001-US20516	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2415068	AA	20020110	CA 2001-2415068	20010628
EP 1294383	A2	20030326	EP 2001-950570	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004517038	T2	20040610	JP 2002-506749	20010628
PRIORITY APPLN. INFO.:			US 2000-607240	A 20000630
			WO 2001-US20516	W 20010628

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical oral compns. containing antimicrobial agents for promoting whole body health)

RN 22573-93-9 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-

L4 ANSWER 33 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to promoting whole body health in humans and
animals by using topical oral compns. comprising a safe and effective amount
of chlorite ion in admixt. with a pharmaceutically acceptable carrier, said compns. being effective in controlling bacterial-mediated diseases and conditions present in the oral cavity and inhibiting the spread into the bloodstream of oral pathogenic bacteria and associated bacterial toxins
and resultant inflammatory cytokines and mediators. The present invention
also encompasses methods of use of these compns. by topically applying to the oral cavity, a safe and effective amount of chlorite ion to promote and/or enhance whole body health in humans and other animals. For example, an oral spray was prepared containing sodium chlorite (80%) 1.25%,
sodium bicarbonate 0.192%, sodium carbonate 0.289%, and water up to 100%. The formulation has a pH of approx. 10. In an animal clin. study conducted among Beagle dogs, 30 mL of the spray solution according was applied evenly throughout the dog's mouth twice daily (n = 10). After 9 mo, significant redns. in attachment loss were observed in the treated animals compared to those receiving placebo (n = 30), i.e., a spray solution
containing the same ingredients but without sodium chlorite.

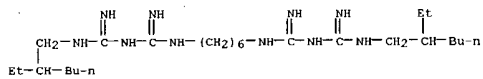
ACCESSION NUMBER: 2002:31206 CAPLUS
DOCUMENT NUMBER: 136:90959
TITLE: Promoting whole body health using chlorite-containing compositions
INVENTOR(S): Doyle, Matthew Joseph; Hunter-Rinderle, Stephen Joseph; Singer, Robert Ernest, Jr.; Wimalasena, Rohan Lalith
PATENT ASSIGNEE(S): Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002063	A2	20020110	WO 2001-US20517	20010628
WO 2002002063	C1	20031106		
WO 2002002063	A3	20020725		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2414576	AA	20020110	CA 2001-2414576	20010628
EP 1294345	A2	20030326	EP 2001-948785	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004501944	T2	20040122	JP 2002-506686	20010628

L4 ANSWER 34 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PRIORITY APPLN. INFO.:	US 2000-607729	A 20000630
	WO 2001-US20517	W 20010628

IT **22573-93-9**, Alexidine
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chlorite-containing topical oral compns. for promoting whole body health)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 35 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to topical oral compns., including therapeutic rinses, especially mouth rinses, as well as toothpastes, gels, tooth
powders, chewing gums, mouth sprays, lozenges (including breath mints), dental implements (such as dental floss and tape), and pet care products comprising at least a minimally effective amount of chlorite ion (0.02-6.0%), wherein the pH of the final composition is greater than 7 and the
composition is essentially free of chlorine dioxide or chlorous acid. This
invention further relates to a method for treating or preventing diseases and conditions of the oral cavity such as gingivitis, plaque, periodontal disease, herpetic lesions, and infections that may develop following dental procedures such as osseous surgery, tooth extraction, periodontal flap
surgery, dental implantation, and scaling and root planing, in humans and other animals, by applying a safe and effective amount of the chlorite ion
composition to the oral cavity. For example, a sub-gingival gel was prepared
containing sodium chlorite (80%) 2.0%, poly(lactide-co-glycolide) 30.0%, and
propylene carbonate 68.0%. The resulting gel-like fluid can be inserted into or around the periodontal pocket or gingival region via syringe.

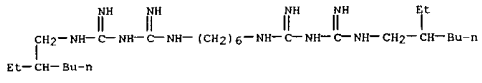
ACCESSION NUMBER: 2002:31204 CAPLUS
DOCUMENT NUMBER: 136:90958
TITLE: Oral care compositions comprising chlorite, and methods
INVENTOR(S): Witt, Jonathan James; Wimalasena, Rohan Lalith; Wong, Andrew Lee; Goulbourne, Eric Altman, Jr.; Doyle, Matthew Joseph
PATENT ASSIGNEE(S): Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002061	A2	20020110	WO 2001-US20614	20010628
WO 2002002061	A3	20020627		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6350438	B1	20020226	US 2000-607242	20000630
CA 2414573	AA	20020110	CA 2001-2414573	20010628
EP 1294347	A2	20030326	EP 2001-946731	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004501942	T2	20040122	JP 2002-506684	20010628

L4 ANSWER 35 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PRIORITY APPLN. INFO.:	US 2000-607242	A	20000630
	US 1998-32234	A2	19980227
	US 1998-32237	A2	19980227
	US 1998-32238	A2	19980227
	WO 2001-US20614	W	20010628

IT **22573-93-9**, Alexidine
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical oral care compns. comprising chlorite for prevention or treatment of oral cavity diseases)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention is directed to a biguanide-containing disinfecting solution containing a particular type of poloxamine for stabilizing a polymeric biguanide. The poloxamine surfactant comprises at least about 90 weight percent of poly(oxyethylene) and poly(oxypropylene) segments, in one or more copolymer chains, wherein the weight average mol. weight of said surfactant is from about 10,000 to about 30,000 and wherein at least about 70 weight percent of said poly(oxyethylene) and poly(oxypropylene) segments are poly(oxyethylene) segments, and wherein the HLB value is at least 27. The method of the present invention comprises cleaning and disinfecting a contact lens with the above-described solution Products according to the present invention provide enhanced cleaning while maintaining biocidal efficacy.

ACCESSION NUMBER:	2001:792209 CAPLUS
DOCUMENT NUMBER:	135:335232
TITLE:	Treatment of contact lenses with aqueous solution comprising a biguanide disinfectant stabilized by a poloxamine
INVENTOR(S):	Xia, Erning; Heiler, David J.
PATENT ASSIGNEE(S):	Bausch & Lomb Inc., USA
SOURCE:	U.S., 9 pp. CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6309596	B1	20011030	US 1998-211547	19981215
PRIORITY APPLN. INFO.:			US 1998-211547	19981215

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(contact lens treatment with aqueous solution comprising biguanide disinfectant stabilized by poloxamine)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 37 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Physiol. acceptable films, including edible films, are disclosed. The films include a water soluble film-forming polymer, such as pullulan, and a taste masked pharmaceutically active agent, such as dextromethorphan. The taste masking agent is preferably a sulfonated polymer ion exchange resin comprising polystyrene cross-linked with divinylbenzene, such as Amberlite. Methods for producing the films are also disclosed. For example, an antitussive film was prepared in accordance with the following procedure: (A) uncoated dextromethorphan hydrobromide was dissolved with mixing in the water, while maintaining the temperature at 75°, Amberlite resin was then mixed into the water with heating at 70-80°, and heating was stopped, water lost to evaporation was replaced, and the potassium sorbate and sweeteners were then added to the composition with mixing to form Preparation A. (B) The film-forming ingredients (i.e., xanthan gum, locust bean gum, carrageenan and pullulan) were mixed in a sep. container to form Preparation B. (C) Preparation B was slowly added to Preparation A with rapid mixing, followed by overnight mixing at a reduced rate to provide Preparation C. (D) The menthol was dissolved with mixing in the alc. in a sep. container. The Physcool was then dissolved with mixing therein. Monoammonium glycyrrhizinate, Polysorbate 80, Atmos 300 and flavors were then added to the mixture and mixed to enhanced uniformity to form Preparation D. (E) Preparation D, glycerin and mannitol were added to Preparation C with thorough mixing to provide Preparation E. Preparation E was poured on a mold and cast to form a film of a desired thickness at room temperature The film was dried under warm air and cut to a desired dimension (dictated by, e.g., dosage and mouthfeel) for taste testing. The active film had a pleasing appearance and taste.

ACCESSION NUMBER:	2001:713109 CAPLUS
DOCUMENT NUMBER:	135:262242
TITLE:	Fast dissolving orally consumable films containing an ion exchange resin as a taste masking agent
INVENTOR(S):	Bess, William S.; Kulkarni, Neema; Ambike, Suhas H.; Ramsay, Michael Paul
PATENT ASSIGNEE(S):	Warner-Lambert Company, USA
SOURCE:	PCT Int. Appl., 41 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

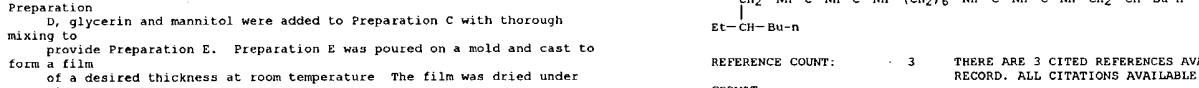
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070194	A1	20010927	WO 2001-US2192	20010123
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

L4 ANSWER 37 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2402988	AA	20010927	CA 2001-2402988	20010123
EP 1267829	A1	20030102	EP 2001-959912	20010123
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009378	A	20030603	BR 2001-9378	20010123
JP 2003527410	T2	20030916	JP 2001-568392	20010123
NZ 520961	A	20031031	NZ 2001-520961	20010123
ZA 2002006963	A	20030721	ZA 2002-6963	20020829
NO 2002004513	A	20020920	NO 2002-4513	20020920
PRIORITY APPLN. INFO.:			US 2000-535005	A 20000323
			WO 2001-US2192	W 20010123

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fast dissolving orally consumable films containing ion exchange resin as taste masking agent)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention relates to a stable, aqueous odor-absorbing composition, preferably for use on inanimate surfaces. The composition comprises from about 0.1 to about 20, by weight of the composition, of solubilized, water-soluble, uncomplexed cyclodextrin and an effective amount of at least one ingredient to improve the performance of the composition selected from the group consisting of: (1) cyclodextrin compatible surfactant; (2) cyclodextrin compatible antimicrobial active; and (3) mixts. thereof. Hydrophilic perfume improves acceptance. Optionally, the composition can contain low mol. weight polyols; metallic salts to help control odor; a humectant, etc. The composition is essentially free of any material that would soil or stain fabric. The composition is preferably applied as small particle size droplets, especially from spray containers, preferably non-manually operated sprayers. The cyclodextrin/surfactant combination, either alone, or in combination with the other ingredients, provides improved antimicrobial activity. A composition contained hydroxypropyl β-cyclodextrin 1.0, Silwet L-7600 0.1, chlorhexidine diacetate 0.03%, Kathon 3 ppm, HCl q.s. pH = 4, and water q.s. 100%.

ACCESSION NUMBER: 2001:645598 CAPLUS
DOCUMENT NUMBER: 135:215794
TITLE: Uncomplexed cyclodextrin compositions for odor control
INVENTOR(S): Trinh, Toan; Burns, Anthony James; Campbell, William Tucker; Streutker, Alen David; Woo, Ricky Ah-Man; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Rosenbalm, Erin Lynn; Ward, Thomas Edward; Chung, Alex Haejoon
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: U.S., 24 pp., Cont.-in-part of U.S. 5,955,093.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

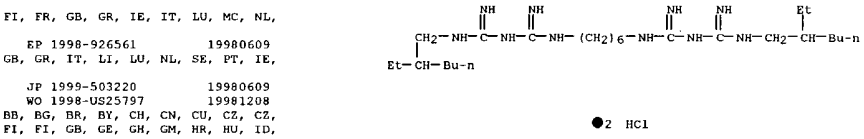
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6284231	B1	20010904	US 1998-67237	19980427
US 5955093	A	19990921	US 1997-871119	19970609
WO 9856429	A1	19981217	WO 1998-US12155	19980609
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 988064	A1	20000329	EP 1998-926561	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002507133	T2	20020305	JP 1999-503220	19980609
WO 9955815	A1	19991104	WO 1998-US25797	19981208
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9917111	A1	19991116	AU 1999-17111	19981208
AU 740240	B2	20011101		
BR 9815837	A	20001226	BR 1998-15837	19981208
TR 200003129	T2	20010321	TR 2000-200003129	19981208
NZ 337497	A	20010629	NZ 1998-337497	19981208

PRIORITY APPLN. INFO.:

US 1997-871119	A2	19970609
US 1997-871042	A	19970609
US 1997-871339	A	19970609
US 1997-871576	A	19970609
US 1998-67184	A	19980427
US 1998-67237	A	19980427
US 1998-67238	A	19980427
US 1998-67239	A	19980427
US 1998-67243	A	19980427
US 1998-67249	A	19980427
US 1998-67387	A	19980427
US 1998-67639	A	19980427
WO 1998-US12155	W	19980609
WO 1998-US25797	W	19981208

IT **1715-30-6 114598-63-9 217651-12-2 217651-14-4 217651-24-6 358336-43-3**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(uncomplexed cyclodextrin compns. for odor control)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

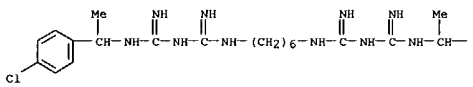


●2 HCl

L4 ANSWER 38 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

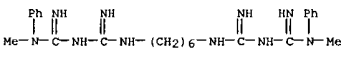
PAGE 1-A



●2 HCl

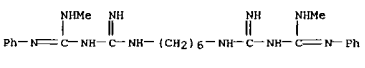
PAGE 1-B

RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

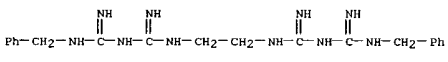
RN 217651-14-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N',N'''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



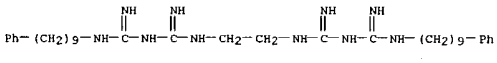
●2 HCl

RN 217651-24-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(phenylmethyl)-(9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 358336-43-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(9-phenylnonyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

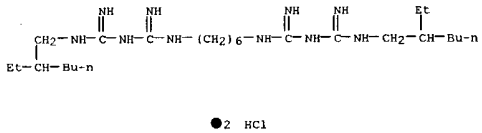
AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing reduction activity after contact 2.

ACCESSION NUMBER: 2001:578597 CAPLUS
DOCUMENT NUMBER: 135:124156
TITLE: Bactericide combinations in detergents
INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip
PATENT ASSIGNEE(S): Robert McBride Ltd., UK
SOURCE: Brit. UK Pat. Appl., 53 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001
PRIORITY APPLN. INFO.:			GB 1999-23253	19991001

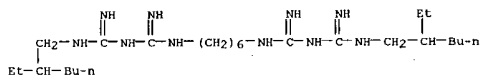
IT **1715-30-6**
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(bactericide combinations in detergents)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 40 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

CRN 7697-37-2
CMF H N O3

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 40 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Nitrate salts of antiviral, antifungal, and antibacterial agents such as acyclovir, tetracycline, etc. were prepared Growth inhibition of, e.g., an S. Aureus strain by title compds. was demonstrated.

ACCESSION NUMBER: 2001:564833 CAPLUS
DOCUMENT NUMBER: 135:152367
TITLE: Nitrate salts of antimicrobial agents
INVENTOR(S): Del Soldato, Piero; Benedini, Francesca; Antognazza, Patrizia
PATENT ASSIGNEE(S): Nicox S.A., Fr.
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001054691	A1	20010802	WO 2001-EP430	20010116
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IT 1317735	B1	20030715	IT 2000-MI92	20000126
CA 2397754	AA	20010802	CA 2001-2397754	20010116
BR 2001007824	A	20021105	BR 2001-7824	20010116
EP 1253924	A1	20021106	EP 2001-909631	20010116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003520814	T2	20030708	JP 2001-554675	20010116
US 2003105066	A1	20030605	US 2002-181424	20020724
US 6794372	B2	20040921		
PRIORITY APPLN. INFO.:			IT 2000-MI92 A	20000126
			WO 2001-EP430 W	20010116

OTHER SOURCE(S): MARPAT 135:152367

IT **352464-81-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nitrate salts of antimicrobial agents)

RN 352464-81-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, nitrate (9CI) (CA INDEX NAME)

CM 1

CRN 22573-93-9
CMF C26 H56 N10

L4 ANSWER 41 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The raw material is composed of di(p-chlorophenyl)diguanidoethane as a bactericidal disinfectant 0.05-5, anion surfactants 1-8, and poly(vinyl alc.)-ethanol solution 87-98.95%. The anion surfactant used for killing sperm is nonoxynol or menfegol.

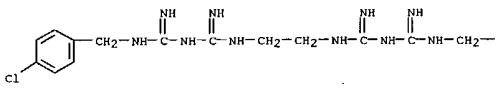
ACCESSION NUMBER: 2001:327007 CAPLUS
DOCUMENT NUMBER: 134:316201
TITLE: Disinfectants and spermicides for condoms
INVENTOR(S): Sun, Tingzhu
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1271578	A	20001101	CN 1999-114179	19990428
CN 1121855	B	20030924		
PRIORITY APPLN. INFO.:			CN 1999-114179	19990428

IT **124899-68-9**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(disinfectants and spermicides for condoms)

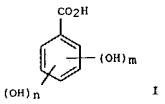
RN 124899-68-9 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,8-diimino- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

L4 ANSWER 42 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

AB The invention concerns compds. derived from titanium of formula [TiFxLy]z- wherein L represents a compound of formula I (m is 0 or 1 and n is 0, 1 or 2, and x represents 2, 4 or 5, yr represents 1 or 2 and z represents 0, 1 or 2). The invention also concerns the use of said compds. in compns. for oral use, for preventing dental decay. A solution of 10 g salicylic acid in 100 mL acetonitrile was stirred with 5 g of titanium fluoride for 24 h. The solution was cooled, filtered, and concentrated at 4° to obtain yellow-orange crystals of salicylate derivative of titanium fluoride which was separated, m.p. = 157-160. Formulation of a dentifrice containing above titanium derivative q.s. 2500 ppm of F is disclosed.

ACCESSION NUMBER: 2001:64003 CAPLUS
DOCUMENT NUMBER: 134:120632
TITLE: Dentifrice compositions containing titanium derived compounds
INVENTOR(S): Finidori, Claudine
PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005797	A1	20010125	WO 2000-FR1994	20000711
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2796383	A1	20010115	FR 1999-9194	19990716
FR 2796383	B1	20020614		
CA 2378855	AA	20010125	CA 2000-2378855	20000711

L4 ANSWER 42 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

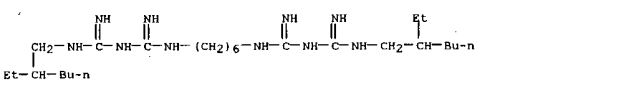
BR 2000012475	A	20020402	BR 2000-12475	20000711
EP 1202996	A1	20020508	EP 2000-949690	20000711
EP 1202996	B1	20031001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200070	T2	20020621	TR 2002-200200070	20000711
JP 2003513011	T2	20030408	JP 2001-511456	20000711
AT 251170	E	20031015	AT 2000-949690	20000711
NZ 516454	A	20040227	NZ 2000-516454	20000711
PT 1202996	T	20040227	PT 2000-949690	20000711
ES 2206282	T3	20040516	ES 2000-949690	20000711
ZA 2002000222	A	20030410	ZA 2002-222	20020110
NO 2002000156	A	20020315	NO 2002-156	20020111
US 6761879	B1	20040713	US 2002-31087	20020417
HK 1046000	A1	20040408	HK 2002-107572	20021017

PRIORITY APPLN. INFO.: FR 1999-9194 A 19990716
WO 2000-FR1994 W 20000711

OTHER SOURCE(S): MARPAT 134:120632

IT **22573-93-9**, Alexidine
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(dentifrice compns. containing titanium derived compds.)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 43 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The agents contain microbicides and show viscosity (at 25°) 2-200 cP. The agents do not cause corrosion or discoloration of drain pipes. A slimicide was prepared from mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one 0.1, 2-bromo-2-nitropropane-1,3-diol 1.0, 6000P (polyethylene glycol) 5 weight%, surfactant, antifoaming agent, and colorant.

ACCESSION NUMBER: 2001:58518 CAPLUS
DOCUMENT NUMBER: 134:121008
TITLE: Agents and method for slime control of vacuum lines in dental appliances
INVENTOR(S): Kamado, Yoshinori; Takeda, Toshihide
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001019997	A2	20010123	JP 1999-198016	19990712

PRIORITY APPLN. INFO.: JP 1999-198016 19990712

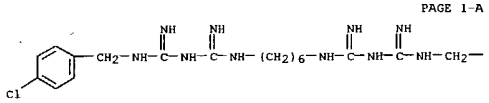
IT **39762-18-0**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(agents and method for slime control of vacuum lines in dental appliances)

RN 39762-18-0 CAPLUS
CN D-Gluconic acid, compd. with N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 39762-17-9
CMF C24 H34 Cl2 N10

PAGE 1-A



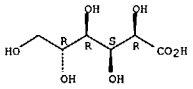
L4 ANSWER 43 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

CM 2

CRN 526-95-4
CMF C6 H12 O7

Absolute stereochemistry.



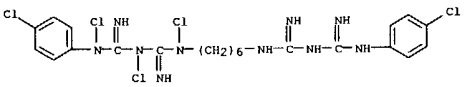
L4 ANSWER 44 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB R1R2XCOYR3R4 [I; X = C, O, N, S; Y = N, O, S; ≥1 of R1-R4 = H; R2 = H when X = N, R2 = null when X = S, O; R4 = H when Y = N, R4 = null when Y = S, O; R1, R3 = (substituted) alkyl, haloalkyl, cycloalkyl, aryl, acyl, heterocyclyl; and metabolites and degradation products thereof], were prepared
Thus, pentylamine in hexane was treated with octyl isocyanate followed by stirring and standing overnight to give 97% 1-octyl-3-pentylurea. The latter inhibited human soluble epoxide hydrolase with IC50 = 0.72 μM. I may be used to purify, isolate, or inhibit epoxide hydrolase, and may be used in conjunction with herbicides, insecticides, and fungicides.
ACCESSION NUMBER: 2000:821596 CAPLUS
DOCUMENT NUMBER: 133:349972
TITLE: Preparation of ureas and related compounds as soluble epoxide hydrolase inhibitors.
INVENTOR(S): Hammock, Bruce D.; Morisseau, Christophe H.; Zheng, Jiang; Goodrow, Marvin H.; Severson, Tonya; Sanborn, James
PATENT ASSIGNEE(S): The Regents of the University of California, USA
SOURCE: U.S., 17 pp., Cont.-in-part of U. S. 5,955,496.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6150415	A	20001121	US 1999-252148	19990218
US 5955496	A	19990921	US 1997-909523	19970812
US 6174695	B1	20010116	US 1999-312207	19990514
CA 2362331	AA	20000824	CA 2000-2362331	20000210
EP 1154764	A1	20011121	EP 2000-911767	20000210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002540767	T2	20021203	JP 2000-599385	20000210
US 6531506	B1	20030311	US 2000-721261	20001121
US 2003119900	A1	20030626	US 2002-328495	20021223
US 6693130	B2	20040217		
US 2004092487	A1	20040513	US 2003-694641	20031027

PRIORITY APPLN. INFO.:
US 1996-23397P P 19960813
US 1997-909523 A2 19970812
US 1999-252148 A 19990218
WO 2000-US3495 W 20000210
US 2000-721261 A1 20001121
US 2002-328495 A1 20021223

OTHER SOURCE(S): MARPAT 133:349972
IT **306770-72-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

L4 ANSWER 44 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. of ureas and related compds. as sol. epoxide hydrolase inhibitors)
RN 306770-72-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,2,4-trichloro-N,N''-bis(4-chlorophenyl)-3,12-diimino- (9CI) (CA INDEX NAME)



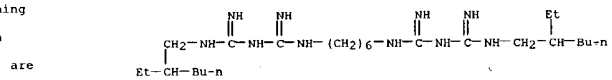
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 45 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to polymeric medical articles comprising combinations of triclosan and silver compds. It is based, at least in part, on the discovery that these agents act synergistically, thereby permitting the use of relatively low levels of both agents. While it was previously found that triclosan can be particularly useful when used in conjunction with chlorhexidine, it has been further discovered that medical articles having suitable antimicrobial properties may be prepared, according to the present invention, which contain triclosan without chlorhexidine. Such medical articles offer the advantage of preventing or inhibiting infection while avoiding undesirable adverse reactions to chlorhexidine by individuals that may have sensitivity to chlorhexidine. Antiinfective medial articles prepared by exposing a polymer-containing article for an effective period of time to a treatment solution comprising a silver salt (0.3-1.5%) and triclosan (0.1-20 %), where the treatment solns. are free of chlorhexidine or a chlorhexidine salt, are claimed. Such antiinfective articles may further contain an antiinflammatory agent, such as salicylic acid, or an antimicrobial agent, such as gramicidin, polymixin, norfloxacin, etc. Mixts. of triclosan/silver sulfadiazine and triclosan/silver carbonate were shown to possess synergistic antimicrobial activity. The synergistic antimicrobial activity of p-chlorometaxylenol/silver salts was also demonstrated.
ACCESSION NUMBER: 2000:707028 CAPLUS
DOCUMENT NUMBER: 133:286525
TITLE: Antiinfective medical devices containing triclosan and silver compound
INVENTOR(S): Modak, Shanta; Sampath, Lester
PATENT ASSIGNEE(S): The Trustees of Columbia University in the City of New York, USA
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000057933	A1	20001005	WO 2000-US8692	20000330
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2366380	AA	20001005	CA 2000-2366380	20000330
EP 1165155	A1	20020102	EP 2000-920019	20000330
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002539895	T2	20021126	JP 2000-607682	20000330
AU 773655	B2	20040603	AU 2000-40620	20000330

PRIORITY APPLN. INFO.:
US 1999-281872 A 19990331
WO 2000-US8692 W 20000330

L4 ANSWER 45 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
IT **22573-93-9**, Alexidine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiinfective medical devices containing triclosan and silver compound)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 46 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Amidopolybiguanides and their use as antimicrobial agents in pharmaceutical compns. are disclosed. A method of synthesis of amidopolybiguanides is also disclosed. The amidopolybiguanides are useful in the preservation of pharmaceutical compns., particularly ophthalmic and otic pharmaceutical compns. and compns. for treating contact lenses. The compds. are especially useful for disinfecting contact lenses. Thus, Cosmocil CQ in DMSO was treated with PEG succinimidyl succinamide monomethyl ether to give a product that was characterized. This compound was used at 0.00001-0.01% for disinfection of contact lenses.

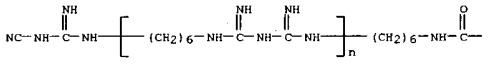
ACCESSION NUMBER: 2000:421091 CAPLUS
DOCUMENT NUMBER: 133:63956
TITLE: Preparation of amidopolybiguanides antimicrobial agents
INVENTOR(S): Park, Joonsup; McQueen, Nathaniel D.
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035862	A1	20000622	WO 1999-US30207	19991217
W: AU, BR, CA, JP, MX, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2352079	AA	20000622	CA 1999-2352079	19991217
BR 9916267	A	20010904	BR 1999-16267	19991217
EP 1140805	A1	20011010	EP 1999-966414	19991217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002532463	T2	20021002	JP 2000-588124	19991217
US 6423748	B1	20020723	US 2000-646560	20000919
PRIORITY APPLN. INFO.:			US 1998-112972P	P 19981218
			WO 1999-US30207	W 19991217

IT **277333-80-9P 277333-81-0P 277333-82-1P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amidopolybiguanides antimicrobial agents)

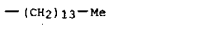
RN 277333-80-9 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), α-[6-[(1-oxopentadecyl)amino]hexyl]-ω-[[(cyanoamino)iminomethyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



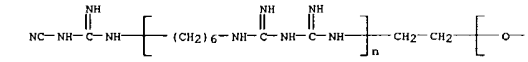
L4 ANSWER 46 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

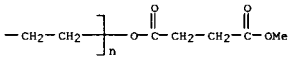


RN 277333-81-0 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), α-(2-hydroxyethyl)-ω-[[(cyanoamino)iminomethyl]amino]-, ether with α-hydro-ω-(4-methoxy-1,4-dioxobutoxy)poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)

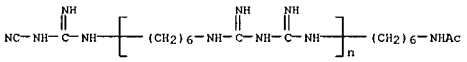
PAGE 1-A



PAGE 1-B



RN 277333-82-1 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), α-[6-(acetylamino)hexyl]-ω-[[(cyanoamino)iminomethyl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 47 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Physiol. acceptable films, including edible films, are disclosed. The films include a water soluble film-forming polymer such as pullulan. Edible films are disclosed that include pullulan and antimicrobially effective amts. of the essential oils thymol, Me salicylate, eucalyptol and menthol.
The edible films are effective at killing the plaque-producing germs that cause dental plaque, gingivitis and bad breath. The film can also contain pharmaceutically active agents. Methods for producing the films are also disclosed.

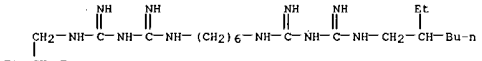
ACCESSION NUMBER: 2000:227470 CAPLUS
DOCUMENT NUMBER: 132:255811
TITLE: Fast dissolving orally consumable films
INVENTOR(S): Leung, Sau-Hung Spence; Leone, Robert S.; Kumar, Lori Dee; Kulkarni, Neema; Sorg, Albert F.
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018365	A2	20000406	WO 1999-US22115	19990923
WO 2000018365	A3	20001116		
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, TZ, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2339353	AA	20000406	CA 1999-2339353	19990923
AU 9960593	A1	20000417	AU 1999-60593	19990923
AU 771862	B2	20040401		
EP 1115372	A2	20010718	EP 1999-969668	19990923
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002525306	T2	20020813	JP 2000-571886	19990923
EE 200100186	A	20020815	EE 2001-186	19990923
ZA 2001001706	A	20030528	ZA 2001-1706	20010228
NO 2001001476	A	20010322	NO 2001-1476	20010322
PRIORITY APPLN. INFO.:			US 1998-101798P	P 19980925
			WO 1999-US22115	W 19990923

IT **22573-93-9**, Alexidine
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fast dissolving orally consumable films for killing plaque-producing germs)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 47 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 48 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The composition contains an alc., and a bis(chlorophenylbiguanidino)hexane, synergist. A type cleaning agent comprised an alc. 65, and bis(chlorophenylbiguanidino)hexane 0.1, synergist 0.2, antistatic agent 0.1, essence 1%, and water balanced.

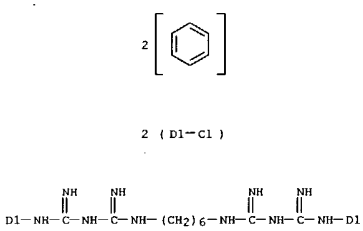
ACCESSION NUMBER: 2000:201157 CAPLUS
DOCUMENT NUMBER: 132:209507
TITLE: Fast-drying disinfectant cleaning compositions for telephone
INVENTOR(S): Xian, Weimin
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1194778	A	19981007	CN 1996-104850	19960508

PRIORITY APPLN. INFO.: CN 1996-104850 19960508

IT **260411-68-5**
RL: MOA (Modifier or additive use); USES (Uses)
(fast-drying disinfectant cleaning compns. for telephone)

RN 260411-68-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino- (9CI) (CA INDEX NAME)



2 (D1—Cl)

L4 ANSWER 49 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A stable, aqueous odor-absorbing and controlling composition, preferably for use on inanimate surfaces, especially fabrics, is used in an aerosol container. The composition comprises .apprx.0.1-20% solubilized, water-soluble, uncomplexed cyclodextrin and ≥1 compound selected from (1) cyclodextrin compatible surfactant, (2) cyclodextrin compatible antimicrobial active, and (3) mixts. The composition also comprises hydrophilic perfume, optionally, low mol. weight polyols, metallic salts and enzymes to help control odor, and a humectant. Thus, an example composition contained hydroxypropyl β-cyclodextrin 1.0, Silwet L-7600 surfactant 0.1%, preservative 3 ppm, HCl, and the balance water.

ACCESSION NUMBER: 1999:708863 CAPLUS
DOCUMENT NUMBER: 131:338631
TITLE: Improved uncomplexed cyclodextrin compositions for odor and wrinkle control of fabrics
INVENTOR(S): Woo, Ricky Ah-ma; Trinh, Toan; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Ward, Thomas Edward; Chung, Alex Haejoon; Burns, Anthony James; Campbell, William Tucker; Rosenbalm, Erin Lynn; Streutker, Alen David
PATENT ASSIGNEE(S): Procter & Gamble Co., USA
SOURCE: PCT Int. Appl., 68 pp. CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955815	A1	19991104	WO 1998-US25797	19981208
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 5942217	A	19990824	US 1998-67243	19980427
US 5997759	A	19991207	US 1998-67239	19980427
US 6033679	A	20000307	US 1998-67639	19980427
US 6284231	B1	20010904	US 1998-67237	19980427
AU 9917111	A1	19991116	AU 1999-17111	19981208
AU 740240	B2	20011101		
BR 9815837	A	20001226	BR 1998-15837	19981208
NZ 337497	A	20010629	NZ 1998-337497	19981208
ZA 9811264	A	19991027	ZA 1998-11264	19981209
ZA 9811265	A	19991027	ZA 1998-11265	19981209

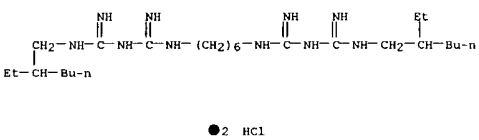
PRIORITY APPLN. INFO.: US 1998-67184 A 19980427
US 1998-67237 A 19980427
US 1998-67238 A 19980427

L4 ANSWER 49 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

US 1998-67239	A	19980427
US 1998-67243	A	19980427
US 1998-67249	A	19980427
US 1998-67387	A	19980427
US 1998-67639	A	19980427
US 1997-871042	A2	19970609
US 1997-871119	A2	19970609
US 1997-871339	B2	19970609
WO 1998-US25797	W	19981208

IT **1715-30-6**, 1,6-Bis-(2-ethylhexylbiguanidohexane)dihydrochloride **114598-63-9 118953-06-3 217651-12-2 247085-68-3 247085-69-4 247085-70-7 247085-72-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(uncomplexed cyclodextrin compns. for odor control of fabrics)

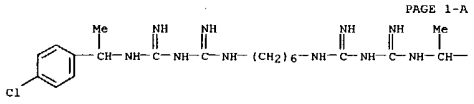
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



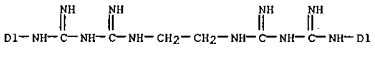
●2 HCl

L4 ANSWER 49 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

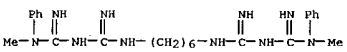
PAGE 1-B

RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)- (9CI) (CA INDEX NAME)

2 [D1—(CH2)8—Me]



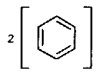
RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



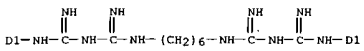
●2 HCl

RN 247085-68-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 49 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

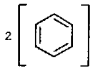


2 (D1—Cl)

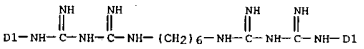


●2 HCl

RN 247085-69-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)



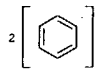
2 (D1—Cl)



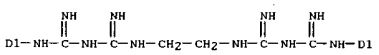
●4 HCl

RN 247085-70-7 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(butylphenyl)-3,8-diimino-(9CI) (CA INDEX NAME)

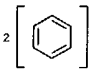
L4 ANSWER 49 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



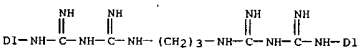
2 (D1—Bu-n)



RN 247085-72-9 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-bis(butylphenyl)-3,9-diimino-(9CI) (CA INDEX NAME)



2 (D1—Bu-n)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 50 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A stable, aqueous odor-absorbing and wrinkle controlling composition, preferably for use on inanimate surfaces, especially fabrics, used in an aerosol container. The composition comprises .apprx.0.1-20% solubilized, water-soluble, uncomplexed cyclodextrin and ≥1 ingredient to improve the performance of the composition selected from (1) cyclodextrin compatible surfactant, (2) cyclodextrin compatible antimicrobial active, and (3) mixts. The composition also comprises a wrinkle control agent which is fabric lubricant, shape retention polymer, hydrophilic plasticizer, Li salt, or mixts., hydrophilic perfume, optionally, low mol. weight polyols, metallic salts to help control odor, and a humectant. Thus, an example composition contained hydroxypropyl β-cyclodextrin 1.0, volatile silicone lubricant 0.5, Silwet L 7600 lubricant 0.5, propylene glycol plasticizer 0.06%, preservative, and the balance water.

ACCESSION NUMBER: 1999:708862 CAPLUS
DOCUMENT NUMBER: 131:338630
TITLE: Improved uncomplexed cyclodextrin compositions for odor and wrinkle control of fabrics
INVENTOR(S): Woo, Ricky Ah-ma; Trinh, Toan; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Ward, Thomas Edward; Chung, Alex Haejoon; Burns, Anthony James; Campbell, William Tucker; Bolich, Raymond Edward, Jr.; Tordil, Helen Bernardo; Mermelstein, Robert; Peffly, Marjorie Mossman; Rosenbalm, Erin Lynn; Streutker, Alen David
PATENT ASSIGNEE(S): Procter & Gamble Co, USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

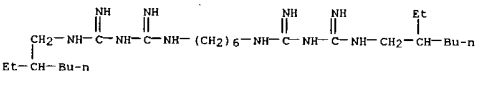
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955814	A1	19991104	WO 1998-US25796	19981208
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 5942217	A	19990824	US 1998-67243	19980427
US 5968404	A	19991019	US 1998-67182	19980427
US 6001343	A	19991214	US 1998-67240	19980427
US 6033679	A	20000307	US 1998-67639	19980427
US 6656923	B1	20031202	US 1998-67241	19980427
AU 9918046	A1	19991116	AU 1999-18046	19981208
AU 740341	B2	20011101		
BR 9815835	A	20001226	BR 1998-15835	19981208
ZA 9811264	A	19991027	ZA 1998-11264	19981209

L4 ANSWER 50 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

ZA 9811265	A	19991027	ZA 1998-11265 19981209
PRIORITY APPLN. INFO.:			US 1998-67182 A 19980427
			US 1998-67184 A 19980427
			US 1998-67240 A 19980427
			US 1998-67241 A 19980427
			US 1998-67243 A 19980427
			US 1998-67385 A 19980427
			US 1998-67387 A 19980427
			US 1998-67639 A 19980427
			US 1997-871042 A2 19970609
			US 1997-871119 A2 19970609
			US 1997-871576 A2 19970609
			WO 1998-US25796 W 19981208

IT **1715-30-6**, 1,6-Bis-(2-ethylhexylbiguanidohexane)dihydrochloride
114598-63-9 118953-06-3 217651-12-2
247085-69-4 247085-70-7 247085-72-9
RL: TEM (Technical or engineered material use); USES (Uses)
(uncomplexed cyclodextrin compns. for odor and wrinkle control of fabrics)

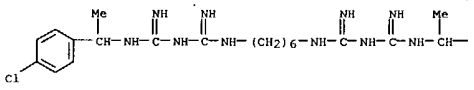
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

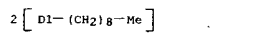
PAGE 1-A

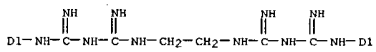


●2 HCl

PAGE 1-B

RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)-(9CI) (CA INDEX NAME)

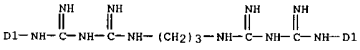




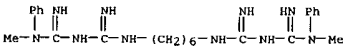
RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)

RN 247085-72-9 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-bis(butylphenyl)-3,9-diimino-(9CI) (CA INDEX NAME)

2 (D1—Bu-n)



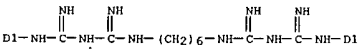
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



●2 HCl

RN 247085-69-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)

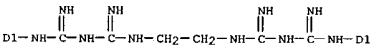
2 (D1—Cl)



●4 HCl

RN 247085-70-7 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(butylphenyl)-3,8-diimino-(9CI) (CA INDEX NAME)

2 (D1—Bu-n)



AB The present invention relates to a stable, aqueous odor-absorbing and wrinkle controlling composition, preferably for use on inanimate surfaces, especially fabrics. The composition comprises from about 0.1% to about 20%, by weight of the composition, of solubilized, water-soluble, uncomplexed cyclodextrin and an effective amount of at least one ingredient to improve the performance of the composition selected from the group consisting of: (1) cyclodextrin compatible surfactant; (2) cyclodextrin compatible antimicrobial active; and (3) mixts. thereof. The composition also comprises a wrinkle control agent which is fabric lubricant, shape retention polymer, hydrophilic plasticizer, lithium salt, or mixts. thereof. Hydrophilic perfume improves acceptance. Optionally, the composition can contain low mol. weight polyols; metallic salts to help control odor; a humectant, etc. The composition is essentially free of any material that would soil or stain fabric. The composition is preferably applied as small particle size droplets, especially from spray containers. The cyclodextrin/surfactant combination, either alone, or in combination with the other ingredients, provides improved antimicrobial activity.

ACCESSION NUMBER: 1999:670975 CAPLUS
DOCUMENT NUMBER: 131:300557
TITLE: Uncomplexed cyclodextrin compositions for odor and wrinkle control
INVENTOR(S): Trinh, Toan; Bolich, Raymond Edward, Jr.; Tordil, Helen Bernardo; Mermelstein, Robert; Peffly, Marjorie Mossman; Woo, Ricky Ah-man; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Rosenbalm, Erin Lynn; Ward, Thomas Edward; Chung, Alex Haejoon; Burns, Anthony James; Campbell, William Tucker; Streutker, Alen David
PATENT ASSIGNEE(S): Procter & Gamble Co., USA
SOURCE: U.S., 30 pp., Cont.-in-part of U. S. Ser. No. 871,576.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5968404	A	19991019	US 1998-67182	19980427
WO 9856890	A1	19981217	WO 1998-US12160	19980609
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 988364	A1	20000329	EP 1998-926562	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002505720	T2	20020219	JP 1999-503224	19980609
WO 9955814	A1	19991104	WO 1998-US25796	19981208
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID,				

L4 ANSWER 51 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

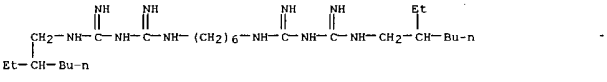
IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9918046	A1	19991116	AU 1999-18046	19981208
AU 740341	B2	20011101		
TR 200003126	T2	20010122	TR 2000-200003126	19981208
PRIORITY APPLN. INFO.:			US 1997-871576	A2 19970609
			US 1997-871042	A 19970609
			US 1997-871119	A 19970609
			US 1997-871339	A 19970609
			US 1998-67182	A 19980427
			US 1998-67184	A 19980427
			US 1998-67240	A 19980427
			US 1998-67241	A 19980427
			US 1998-67243	A 19980427
			US 1998-67385	A 19980427
			US 1998-67387	A 19980427
			US 1998-67639	A 19980427
			WO 1998-US12160	W 19980609
			WO 1998-US25796	W 19981208

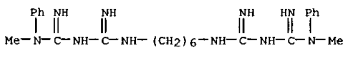
IT **1715-30-6**, 1,6-Bis-(2-ethylhexylbiguanidohexane)dihydrochloride
114598-63-9 118953-06-3 217651-12-2
247085-68-3 247085-69-4 247085-70-7
247085-72-9
RL: TEM (Technical or engineered material use); USES (Uses)
(uncomplexed cyclodextrin compns. for odor and wrinkle control)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

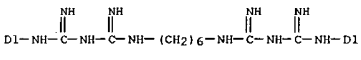
L4 ANSWER 51 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 247085-68-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

2 (D1—Cl)



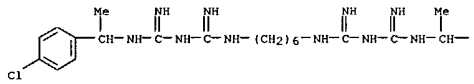
●2 HCl

RN 247085-69-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(chlorophenyl)-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 51 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

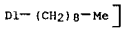
PAGE 1-A

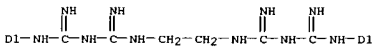


●2 HCl

PAGE 1-B

RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)-(9CI) (CA INDEX NAME)

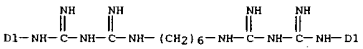




RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 51 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

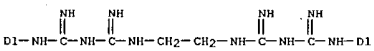
2 (D1—Cl)



●4 HCl

RN 247085-70-7 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(butylphenyl)-3,8-diimino-(9CI) (CA INDEX NAME)

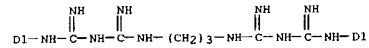
2 (D1—Bu-n)



RN 247085-72-9 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-bis(butylphenyl)-3,9-diimino-(9CI) (CA INDEX NAME)

L4 ANSWER 51 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

2 (D1—Bu-n)

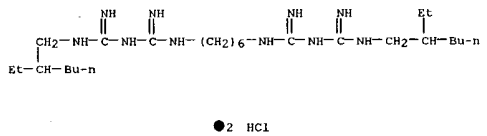


REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 52 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention is directed to a method of disinfecting a contact lens with an ophthalmically safe disinfecting aqueous solution comprising 2.0-8.0
ppm of a bis(biguanide). The invention is also directed to a method of cleaning and/or disinfecting a contact lens within a min. soaking period that is not more than about 75 min. An aqueous contact lens disinfectant solution contained alexidine·2HCl 0.0004, Poloxamine 1107 1.0, Na2EDTA 0.11, boric acid 0.66, Na borate 0.1, NaCl 0.54, and distilled water q.s. to
100 % weight/volume
ACCESSION NUMBER: 1999:655837 CAPLUS
DOCUMENT NUMBER: 131:277012
TITLE: Method for providing rapid disinfection of contact lenses
INVENTOR(S): Lever, Andrea M.; Lever, O. William, Jr.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 16 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5965088	A	19991012	US 1997-956514	19971023
PRIORITY APPLN. INFO.:			US 1997-956514	19971023

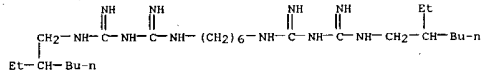
IT **1715-30-6P**, Alexidine dihydrochloride **22573-93-9P**,
Alexidine
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of bis(biguanides) for disinfecting contact lenses)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 52 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

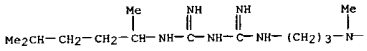
L4 ANSWER 53 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Aminobiguanides and the use of same as antimicrobial agents in pharmaceutical compns. are disclosed. The aminobiguanides are useful in the preservation of pharmaceutical compns., particularly ophthalmic pharmaceutical compns. and compns. for treating contact lenses. The compds. are especially useful for disinfecting contact lenses. An aminobiguanide derivative was prepared by the reaction of N-dodecylmethyl-1,3-
propanediamine dihydrochloride with dimethylpentylcynoguanidine.
Formulation of a solution containing 0.0005% of the aminobiguanide derivative was
disclosed. The solution had potent antimicrobial activity against Candida,
Serratia, and Staphylococcus.
ACCESSION NUMBER: 1999:421573 CAPLUS
DOCUMENT NUMBER: 131:63446
TITLE: Aminobiguanides and the use thereof to disinfect contact lenses and preserve pharmaceutical compositions
INVENTOR(S): Park, Joonsup; Dassanayake, Nissanke L.; Mcqueen, Nathaniel D.; Schlitzer, Ronald L.
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932158	A2	19990701	WO 1998-US27332	19981218
WO 9932158	A3	19990902		
W: AU, BR, CA, JP, KR, MX, NO, NZ, SG, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9811445	A	19990816	ZA 1998-11445	19981214
CA 2309172	AA	19990701	CA 1998-2309172	19981218
AU 9919415	A1	19990712	AU 1999-19415	19981218
AU 751002	B2	20020808		
EP 1042007	A2	20001011	EP 1998-964242	19981218
EP 1042007	B1	20040811		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9814299	A	20011030	BR 1998-14299	19981218
JP 2001526090	T2	20011218	JP 2000-525148	19981218
NZ 505742	A	20021126	NZ 1998-505742	19981218
TW 516960	B	20030111	TW 1998-87121182	19981218
AT 273031	E	20040815	AT 1998-964242	19981218
NO 2000003119	A	20000616	NO 2000-3119	20000616
US 6664294	B1	20031216	US 2000-581952	20000803
US 2004063791	A1	20040401	US 2003-672465	20030926
PRIORITY APPLN. INFO.:			US 1997-68330P	P 19971219
			WO 1998-US27332	W 19981218
			US 2000-581952	A3 20000803

OTHER SOURCE(S): MARPAT 131:63446
IT **228259-92-5P 228259-94-7P 228259-95-8P**

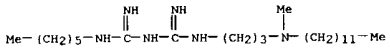
L4 ANSWER 53 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
228259-96-9P 228259-97-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(aminobiguanides and use thereof to disinfect contact lenses and
preserve pharmaceutical compns.)

RN 228259-92-5 CAPLUS
CN Imidodicarbonimidic diamide, N-(1,4-dimethylpentyl)-N'-[3-(dodecylmethylamino)propyl]-, trihydrochloride (9CI) (CA INDEX NAME)



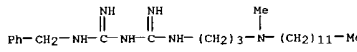
●3 HCl

RN 228259-94-7 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(dodecylmethylamino)propyl]-N'-hexyl-, trihydrochloride (9CI) (CA INDEX NAME)



●3 HCl

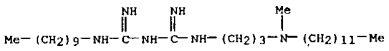
RN 228259-95-8 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(dodecylmethylamino)propyl]-N'-(phenylmethyl)-, trihydrochloride (9CI) (CA INDEX NAME)



●3 HCl

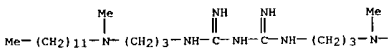
RN 228259-96-9 CAPLUS
CN Imidodicarbonimidic diamide, N-decyl-N'-[3-(dodecylmethylamino)propyl]-, trihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 53 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●3 HCl

RN 228259-97-0 CAPLUS
CN Imidodicarbonimidic diamide, N,N'-bis[3-(dodecylmethylamino)propyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

L4 ANSWER 54 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB An ophthalmically safe disinfecting solution for contact lenses comprise a
biguanide polymer in combination with a bis(biguanide), and a method of using the composition, in the form of an aqueous solution, for disinfecting and/or
preserving contact lenses, especially soft contact lenses. The invention can be
used to formulate products having greater convenience and/or benefits compared to traditional disinfecting products for contact lenses and can provide a broader, more potent and faster antimicrobial activity overall. Poly(hexamethylene biguanide) (I) was prepared by the reaction of 1,6-bis(cyanoguanidino)hexane with 1,6-hexanediamine dihydrochloride. A disinfectant solution contained I 0.00008, alexidine.2HCl 0.0002, Poloxamine
1107 1.0, Na2EDTA 0.11, boric acid 0.66, sodium borate 0.10, sodium chloride 0.54, and water 100.0%. Antibacterial efficacy of the composition was
tested.

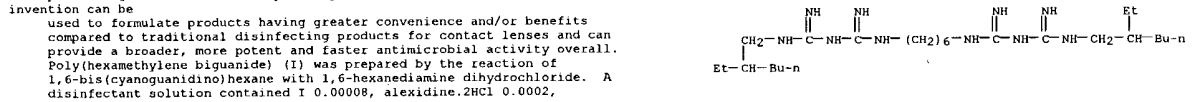
ACCESSION NUMBER: 1999:326027 CAPLUS
DOCUMENT NUMBER: 130:357178
TITLE: Disinfecting contact lenses with bis(biguanides) and polymeric biguanides
INVENTOR(S): Heiler, David J.; Xia, Erning; Simpson, Lisa C.; Marsh, David A.
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924542	A1	19990520	WO 1998-US23818	19981110
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, ES, FI, GB, GE, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, LC, LK, LR, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TR, TT, UA, UZ, VN, YU				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2307664	AA	19990520	CA 1998-2307664	19981110
AU 9913893	A1	19990531	AU 1999-13893	19981110
AU 739900	B2	20011025		
EP 1030902	A1	20000830	EP 1998-957702	19981110
R: DE, ES, FR, GB, IT, IE				
BR 9813994	A	20000926	BR 1998-13994	19981110
JP 2001522672	T2	20011120	JP 2000-520538	19981110
US 6153568	A	20001128	US 1998-190509	19981112
PRIORITY APPLN. INFO.:			US 1997-65501P P	19971112
			WO 1998-US23818 W	19981110

OTHER SOURCE(S): MARPAT 130:357178
IT **1715-30-6**, Alexidine dihydrochloride **22573-93-9**,
Alexidine
RL: RCT (Reactant); RACT (Reactant or reagent)
(disinfecting contact lenses with bis(biguanides) and polymeric

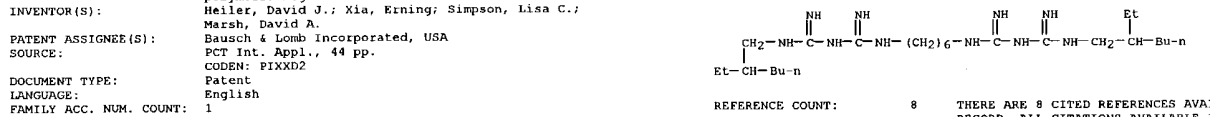
L4 ANSWER 54 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
biguanides)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

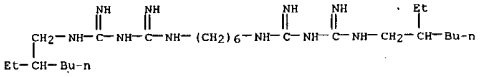
L4 ANSWER 55 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Aqueous biguanide-containing disinfecting solns. containing an improved buffer system
of both a phosphate and borate buffer, optionally nonionic surfactant are effective for contact lenses, especially soft contact lenses. The buffering
capacity is 0.01-0.5 mM of 0.01 N HCl or 0.01-0.3 mM 0.01 N NaOH to changed 1 L solution 1 pH unit. Thus, an example cleaner contained Cosmocil
CQ 0.00008, alexidine 0.0002, boric acid 0.83, Na phosphate 0.31, NaCl 0.375, Tetronic 1107 1.0, Dequest 2016 0.100, Na carbonate 0.100%, NaOH, and the balance water.

ACCESSION NUMBER: 1999:326026 CAPLUS
DOCUMENT NUMBER: 130:339740
TITLE: Cleaning and disinfecting contact lenses with a biguanide and a phosphate-borate buffer
INVENTOR(S): Xia, Erning; Rogalskyj, Jill Short; Simpson, Lisa C.
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924541	A1	19990520	WO 1998-US23728	19981109
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, ES, FI, GB, GE, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, LC, LK, LR, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TR, TT, UA, UZ, VN, YU				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9913129	A1	19990531	AU 1999-13129	19981109
EP 1049763	A1	20001108	EP 1998-956658	19981109
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, IE				
ZA 9810328	A	19990511	ZA 1998-10328	19981111
US 6143244	A	20001107	US 1998-190690	19981112
TW 490493	B	20020611	TW 1998-87118784	19981223
PRIORITY APPLN. INFO.:			US 1997-65509P P	19971112
			WO 1998-US23728 W	19981109

IT **22573-93-9**, Alexidine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(cleaning and disinfecting contact lenses with an aqueous solution containing biguanide and a phosphate-borate buffer)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 56 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to a stable, preferably aqueous, food cleaning
composition, preferably for use on produce and/or food contact surfaces. The
composition typically comprises from about 0.1 % to about 20 %, by weight of the
composition, of solubilized, water-soluble, uncomplexed cyclodextrin and an
effective amount of at least one ingredient to improve the performance of the composition selected from the group consisting of: (1) cyclodextrin compatible surfactant; (2) cyclodextrin compatible antimicrobial active; and (3) mixts. thereof. Optional hydrophilic perfume improves acceptance.
Optionally, the composition can contain low mol. weight polyols; metallic salts to
help control odor; etc. The composition is preferably essentially free of any
material that is not food compatible. The composition is preferably applied as
small particle size droplets, especially from spray containers. The surfactant/antibacterial active combination, provides improved antimicrobial activity.

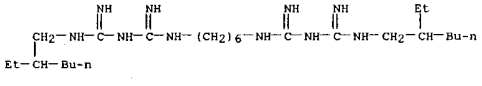
ACCESSION NUMBER: 1999:8094 CAPLUS
DOCUMENT NUMBER: 130:68215
TITLE: Food cleaning compositions containing cyclodextrin
INVENTOR(S): Woo, Ricky Ah-Ma; Trinh, Toan; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Ward, Thomas Edward; Chung, Alex Haejoon; Roselle, Brian Joseph; Campbell, William Tucker; Sreutker, Alen David; Burns, Anthony James
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856889	A1	19981217	WO 1998-US12159	19980609
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5955093	A	19990921	US 1997-871119	19970609
AU 9879610	A1	19981230	AU 1998-79610	19980609
BR 9810426	A	20000905	BR 1998-10426	19980609
TR 200000439	T2	20001121	TR 2000-200000439	19980609
EP 1124923	A1	20010822	EP 1998-930149	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002504175	T2	20020205	JP 1999-503223	19980609
PRIORITY APPLN. INFO.:			US 1997-871042 A	19970609

L4 ANSWER 56 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

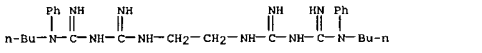
US 1997-871119	A	19970609
US 1997-871339	A	19970609
US 1997-871576	A	19970609
WO 1998-US12159	W	19980609

OTHER SOURCE(S): MARPAT 130:68215
IT **1715-30-6**, 1,6-Bis(2-ethylhexylbiguanidohexane) dihydrochloride
103044-28-6 114598-63-9 118953-06-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(microbicide; sprayable food cleaning compns. containing cyclodextrin, surfactants, and microbicides)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

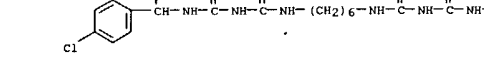


●2 HCl

RN 103044-28-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-dibutyl-3,8-diimino-N,N''-diphenyl- (9CI) (CA INDEX NAME)



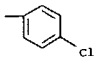
RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



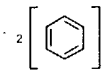
●2 HCl

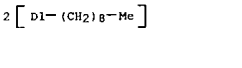
L4 ANSWER 56 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

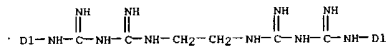
PAGE 1-B



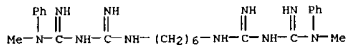
RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)-(9CI) (CA INDEX NAME)







IT **217651-12-2**, 1,6-Bis(N1,N1'-phenyl-N1,N1'-methyldiguanido-N5,N5'-hexane) dihydrochloride
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(sprayable food cleaning compns. containing cyclodextrin, surfactants, and microbicides)
RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 57 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title stable, spray-on aqueous odor-absorbing composition comprises .apprx.0.1-20% solubilized, water-soluble, uncomplexed cyclodextrin, and an effective amount of ≥1 ingredient selected from (1) cyclodextrin-compatible surfactant, (2) cyclodextrin-compatible antimicrobial active, and (3) mixts. of 1 and 2. Optionally, the composition can contain a perfume, low mol. weight polyols, metallic salts for odor control, a humectant, antimicrobial agent, chelating agent, etc.

ACCESSION NUMBER: 1999:8093 CAPLUS
DOCUMENT NUMBER: 130:68189
TITLE: Uncomplexed cyclodextrin compositions for odor control and refreshening of garments
INVENTOR(S): Woo, Ricky Ah-ma; Trinh, Toan; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Ward, Thomas Edward; Chung, Alex Haejoon; Reece, Steven; Rosenbalm, Erin Lynn
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

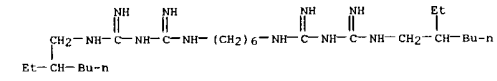
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856888	A1	19981217	WO 1998-US12154	19980609
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5955093	A	19990921	US 1997-871119	19970609
US 5942217	A	19990824	US 1998-67243	19980427
US 6033679	A	20000307	US 1998-67639	19980427
EP 988365	A1	20000329	EP 1998-930147	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002504837	T2	20020212	JP 1999-503219	19980609
CA 2293371	C	20020423	CA 1998-2293371	19980609
ZA 9811264	A	19991027	ZA 1998-11264	19981209
ZA 9811265	A	19991027	ZA 1998-11265	19981209

PRIORITY APPLN. INFO.:

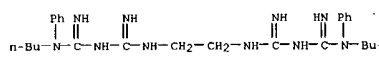
US 1997-871042	A	19970609
US 1997-871119	A	19970609
US 1997-871339	A	19970609
US 1997-871576	A	19970609
US 1998-67184	A	19980427
US 1998-67243	A	19980427
US 1998-67387	A	19980427
US 1998-67639	A	19980427

L4 ANSWER 57 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
WO 1998-US12154 W 19980609

OTHER SOURCE(S): MARPAT 130:68189
IT **1715-30-6 103044-28-6 114598-63-9 118953-06-3 217651-12-2**
RL: TEM (Technical or engineered material use); USES (Uses)
(uncomplexed cyclodextrin compns. for odor control and refreshening of garments)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

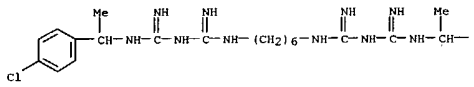


RN 103044-28-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-dibutyl-3,8-diimino-N,N''-diphenyl- (9CI) (CA INDEX NAME)



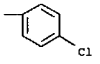
RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

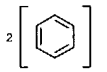


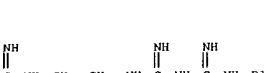
L4 ANSWER 57 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

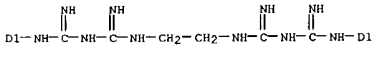
PAGE 1-B



RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)-(9CI) (CA INDEX NAME)







RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 58 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention relates to a stable, aqueous odor-absorbing composition,
preferably for use on inanimate surfaces. The composition comprises from about
0.1 % to about 20 %, by weight of the composition, of solubilized, water-soluble,
uncomplexed cyclodextrin and an effective amount of at least one ingredient
to improve the performance of the composition selected from the group consisting of: (1) cyclodextrin compatible surfactant; (2) cyclodextrin compatible antimicrobial active; and (3) mixts. thereof. Hydrophilic perfume improves acceptance. Optionally, the composition can contain low mol.
weight polyols; metallic salts to help control odor; a humectant, etc. The
composition is essentially free of any material that would soil or stain fabric. The composition is preferably applied as small particle size droplets,
especially from spray containers, preferably non-manually operated sprayers.
The cyclodextrin/surfactant combination, either alone, or in combination with the other ingredients, provides improved antimicrobial activity.

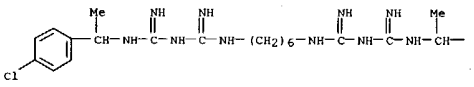
ACCESSION NUMBER: 1999:7868 CAPLUS
DOCUMENT NUMBER: 130:71314
TITLE: Improved uncomplexed cyclodextrin compositions for odor control
INVENTOR(S): Woo, Ricky Ah-ma; Trinh, Toan; Cobb, Daniel Scott; Schneiderman, Eva; Wolff, Ann Margaret; Ward, Thomas Edward; Chung, Alex Haejoon; Burns, Anthony James; Campbell, William Tucker; Rosenbalm, Erin Lynn; Streutker, Alen David
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856429	A1	19981217	WO 1998-US12155	19980609
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5955093	A	19990921	US 1997-871119	19970609
US 5942217	A	19990824	US 1998-67243	19980427
US 5997759	A	19991207	US 1998-67239	19980427
US 6033679	A	20000307	US 1998-67639	19980427
US 6284231	B1	20010904	US 1998-67237	19980427
EP 988064	A1	20000329	EP 1998-926561	19980609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002507133	T2	20020305	JP 1999-503220	19980609
ZA 9811264	A	19991027	ZA 1998-11264	19981209
ZA 9811265	A	19991027	ZA 1998-11265	19981209
US 2004127463	A1	20040701	US 2003-739658	20031218

PRIORITY APPLN. INFO.: US 1997-871042 A 19970609

chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

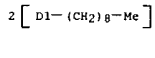
PAGE 1-A

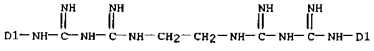


●2 HCl

PAGE 1-B

RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)-(9CI) (CA INDEX NAME)

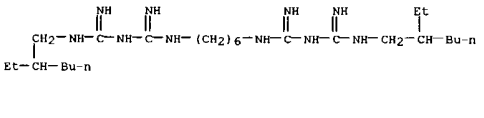




RN 217651-12-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N,N''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)

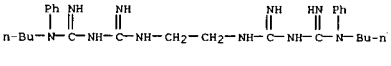
	US 1997-871119	A	19970609
	US 1997-871339	A	19970609
	US 1997-871576	A	19970609
	US 1998-67184	A	19980427
	US 1998-67237	A	19980427
	US 1998-67238	A	19980427
	US 1998-67239	A	19980427
	US 1998-67243	A	19980427
	US 1998-67249	A	19980427
	US 1998-67387	A	19980427
	US 1998-67639	A	19980427
	WO 1998-US12155	W	19980609

OTHER SOURCE(S): MARPAT 130:71314
IT **1715-30-6 103044-28-6 114598-63-9 118953-06-3 217651-12-2 217651-14-4 217651-24-6**
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(uncomplexed cyclodextrin compns. for odor control)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

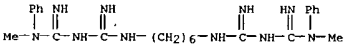


●2 HCl

RN 103044-28-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-dibutyl-3,8-diimino-N,N''-diphenyl- (9CI) (CA INDEX NAME)

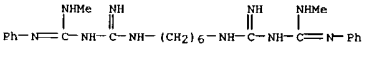


RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-



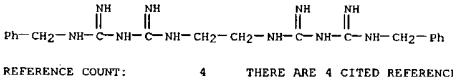
●2 HCl

RN 217651-14-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N',N'''-diphenyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 217651-24-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(phenylmethyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 59 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

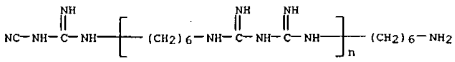
AB The invention provides a method of preventing or reducing bacterial contamination of a viral vaccine, which method comprises adding to a solution containing vaccine virus or virus antigen an effective preserving amount of a preservative composition containing a polybiguanide. The method is particularly useful for preventing or reducing bacterial contamination of process solns. during the manufacture of influenza vaccines. Tests showed that Cosmocil CQ containing poly(hexamethylenebiguanide) hydrochloride performed better than all other preservatives tested.

ACCESSION NUMBER: 1998:672488 CAPLUS
DOCUMENT NUMBER: 129:280976
TITLE: A method of preservation of vaccines with polybiguanide
INVENTOR(S): Lawrence, Michelle Irene Gregarach; Greally, Declan
PATENT ASSIGNEE(S): Medeva Europe Limited, UK
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842373	A1	19981001	WO 1998-GB797	19980318
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
GB 2323279	A1	19980923	GB 1998-5806	19980318
GB 2323279	B2	20010207		
CA 2284028	AA	19981001	CA 1998-2284028	19980318
EP 981370	A1	20000301	EP 1998-909657	19980318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6403363	B1	20020611	US 2001-903935	20010712
PRIORITY APPLN. INFO.:			GB 1997-5740 A	19970320
			WO 1998-GB797 W	19980318
			US 2000-381448 A1	20000530

IT **213997-04-7**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preservation of vaccines with polybiguanide)
RN 213997-04-7 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), α-(6-aminohexyl)-ω-[[(cyanoamino)iminomethyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 59 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 60 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

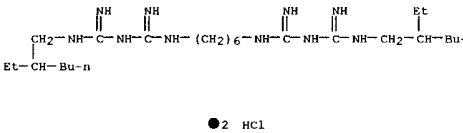
AB The present invention is directed to method of disinfecting a contact lens with a disinfecting aqueous solution comprising about 2.0-8.0 ppm bisguanide.
The invention is also directed to a method of cleaning and/or disinfecting a contact lens within a min. soaking period that is not more than about 75 min. Thus, an aqueous disinfectant solution contained alexidine-2HCl 0.0004, Poloxamine-1107 1.0, disodium-EDTA 0.11. boric acid 0.66, sodium borate 0.10, NaCl 0.54 and water qs 100.0%.

ACCESSION NUMBER: 1998:338159 CAPLUS
DOCUMENT NUMBER: 129:32363
TITLE: Disinfection of contact lenses with bisguanides
INVENTOR(S): Lever, Andrea M.; Lever, O. William, Jr.
PATENT ASSIGNEE(S): Bausch & Lomb Inc., USA
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9820913	A1	19980522	WO 1997-US19559	19971023
W: AL, AU, BB, BR, BY, CA, CU, EE, ES, FI, GB, HU, IL, JP, KE, KG, KP, KR, MD, MK, MN, MW, NO, NZ, PL, PT, RU, SE, SI, SK, TJ, TR, TT, UA, UZ, VN				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2268822	AA	19980522	CA 1997-2268822	19971023
AU 9750034	A1	19980603	AU 1997-50034	19971023
AU 725665	B2	20001019		
EP 938344	A1	19990901	EP 1997-912977	19971023
EP 938344	B1	20020220		
R: DE, ES, FR, GB, IT, IE				
BR 9713017	A	20000125	BR 1997-13017	19971023
JP 2001504245	T2	20010327	JP 1998-522591	19971023
KR 2000053220	A	20000825	KR 1999-704189	19990512
HK 1024426	A1	20030103	HK 2000-101312	20000301
PRIORITY APPLN. INFO.:			US 1996-31808P P	19961113
			WO 1997-US19559 W	19971023

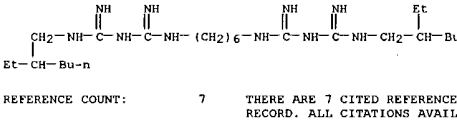
OTHER SOURCE(S): MARPAT 129:32363
IT **1715-30-6P**, Alexidine dihydrochloride **22573-93-9P**, Alexidine
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(disinfection of contact lenses with bisguanides)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 60 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 61 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The invention is directed to an ophthalmically-safe disinfecting solution for contact lenses comprising a bis(biguanide) R1R2NC(:NR5)NHC(:NH)NHANHC(:NH) NHC(:NR6)NR3N4 (R1,R4 = C4-12 alkyl, C4-12 ether or thioether, C5-12 cycloalkyl or cycloalkylalkyl; R2, R3 = H, C1-12 alkyl, C1-12 alkoxyalkyl, C5-12 cycloalkyl or cycloalkylalkyl; R5, R6 = H, C1-6 alkyl; A =divalent alkyl, alkyloxyalkyl, alkyl sulfide, or polymethylene interrupted with a cyclic divalent radical). In one embodiment, such biguanides may be combined with a polymeric biguanide for complementary or synergistic biocidal efficacy. The invention is also directed to an improved method of disinfecting a contact lens. Preparation of bis(biguanides) and polymeric biguanides, is given.

ACCESSION NUMBER: 1998:338087 CAPLUS
DOCUMENT NUMBER: 129:32378
TITLE: Preparation of bis(biguanides) as disinfectants for contact lenses
INVENTOR(S): Spooner, Susan P.; Heiler, David J.; Simpson, Lisa C.; Marsch, David A.
PATENT ASSIGNEE(S): Bausch & Lomb Inc., USA
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

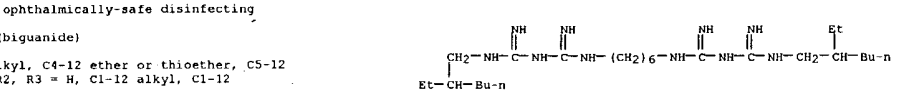
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9820738	A1	19980522	WO 1997-US20087	19971104
W: AL, AU, BB, BR, BY, CA, CU, EE, ES, FI, GB, HU, IL, JP, KE, KG, KP, KR, MD, MK, MN, MW, NO, NZ, PL, PT, RU, SE, SI, SK, TJ, TR, TT, UA, UZ, VN				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2269764	AA	19980522	CA 1997-2269764	19971104
AU 9854291	A1	19980603	AU 1998-54291	19971104
EP 942653	A1	19990922	EP 1997-948172	19971104
R: DE, ES, FR, GB, IT, IE				
BR 9713049	A	20000404	BR 1997-13049	19971104
JP 2001504246	T2	20010327	JP 1998-522632	19971104
KR 2000053221	A	20000825	KR 1999-704190	19990512

PRIORITY APPLN. INFO.: US 1996-31646P P 19961113
WO 1997-US20087 W 19971104

OTHER SOURCE(S): MARPAT 129:32378

IT **1715-30-6P 22573-93-9P**, Alexidine
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as disinfectant for contact lenses)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

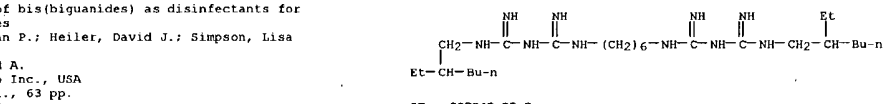


●2 HCl

L4 ANSWER 61 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



IT **207845-25-8**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synergistic disinfectant for contact lenses)

RN 207845-25-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride, mixt. with [poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl)] hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 32289-58-0
CMF (C8 H17 N5)n . x Cl H
CCI PMS

●x HCl

CM 2

CRN 1715-30-6
CMF C26 H56 N10 . 2 Cl H

L4 ANSWER 61 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

●2 HCl

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 62 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

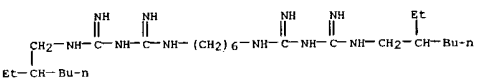
AB The present invention is directed to a lubricant for contact lenses or dry eye or to provide relief from eye irritation. In particular, the composition contains a biguanide preservative in combination with PVP. An ophthalmic solution containing such a combination of components can be applied, in the form of droplets, to the eye or to contact lens in the eye. In one embodiment of the invention, the composition is used as a universal lubricant, meaning that the same solution can be used with or without contact lenses, depending on the needs of the user, whether in the context of a contact-lens care or general eye care. An ophthalmic solution (pH 7.0-7.2) contained polyhexamethylene biguanide·HCl 0.00047, boric acid 0.64, Na borate 0.094, NaCl 0.54, PVP 1.5, disodium edetate 0.1, 1 N NaOH q.s., 1 N HCl q.s., and purified water to 100 %.

ACCESSION NUMBER: 1998:197384 CAPLUS
DOCUMENT NUMBER: 128:261955
TITLE: Method and composition for rewetting contact lenses and relieving eye dryness
INVENTOR(S): De Nimai, C.; Sanzgiri, Yeshwant; Moran, Irene
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9811875	A1	19980326	WO 1997-US15683	19970821
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SD, SG, SI, SK, TR, TT, UA, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9742546	A1	19980414	AU 1997-42546	19970821
AU 721273	B2	20000629		
EP 929292	A1	19990721	EP 1997-940864	19970821
EP 929292	B1	20010530		
R: DE, ES, FR, GB, IT, IE				
BR 9711406	A	19990817	BR 1997-11406	19970821
CN 1230882	A	19991006	CN 1997-198058	19970821
US 6180093	B1	20010130	US 1997-915708	19970821
JP 2001501605	T2	20010206	JP 1998-514707	19970821
ES 2161473	T3	20011201	ES 1997-940864	19970821
CA 2266599	C	20020326	CA 1997-2266599	19970821
CA 2266599	AA	19980326		
KR 2000036193	A	20000626	KR 1999-702248	19990317
HK 1021619	A1	20020222	HK 2000-100369	20000120

PRIORITY APPLN. INFO.: US 1996-31480P P 19960920
WO 1997-US15683 W 19970821

L4 ANSWER 62 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(solns. containing biguanide preservatives in combination with PVP for rewetting contact lenses and relieving eye dryness)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

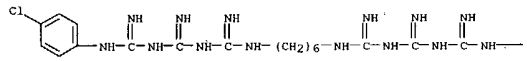


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 63 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

CM 2

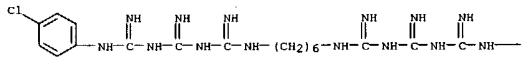
CRN 64-19-7
CMF C2 H4 O2

L4 ANSWER 63 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Soluble cellulose fabrics treated with e.g. alkali metal hydroxide for manufacturing sanitary napkins, wound dressings, diapers and other products are claimed. The prepns. are disposable.
ACCESSION NUMBER: 1998:186841 CAPLUS
DOCUMENT NUMBER: 128:235179
TITLE: Soluble cellulose fabrics for sanitary napkins and other nd products
INVENTOR(S): Xue, Digeng; Mei, Zhang; Liu, Junzhi
PATENT ASSIGNEE(S): Beijing Inst. of Textile Science, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1143697	A	19970226	CN 1996-105888	19960605
CN 1050398	B	20000315		
PRIORITY APPLN. INFO.:			CN 1996-105888	19960605

IT **204633-69-2 204633-70-5D**, reaction products with sodium CM-cellulose
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(soluble cellulose fabrics for manufacturing sanitary napkins, wound dressings and other products)
RN 204633-69-2 CAPLUS
CN 2,4,6,13,15,17-Hexaazaoctadecanediimidamide, N,N''-bis(4-chlorophenyl)-3,5,14,16-tetraimino- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

RN 204633-70-5 CAPLUS
CN 2,4,6,13,15,17-Hexaazaoctadecanediimidamide, N,N''-bis(4-chlorophenyl)-3,5,14,16-tetraimino-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 204633-69-2
CMF C24 H34 Cl2 N14

L4 ANSWER 64 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A lens storage container having an interior coated with an enzymic cleaning composition useful for cleaning and disinfecting contact lenses is claimed. The container is partially filled with a lens disinfecting solution so as to least partially dissolve the cleaning composition, thereby forming an aqueous cleaning and disinfecting solution The enzyme is a proteolytic enzyme such as pancreatin and the disinfectant is a polymeric quaternary ammonium compound (no data).
ACCESSION NUMBER: 1997:397717 CAPLUS
DOCUMENT NUMBER: 127:70890
TITLE: Apparatus and method for cleaning and disinfecting contact lenses comprising enzymes
INVENTOR(S): Stone, Ralph P.
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5637497	A	19970610	US 1995-496241	19950628
PRIORITY APPLN. INFO.:			US 1995-496241	19950628

IT **22573-93-9**, Alexidine **22573-93-9D**, Alexidine, salts
RL: BUU (Biological use, unclassified); CAT (Catalyst use); BIOL (Biological study); USES (Uses)
(apparatus and method for cleaning and disinfecting contact lenses comprising enzymes)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

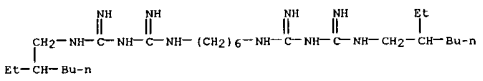
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

AB This invention relates to chewable objects for animals which contain, as a
dentally therapeutic ingredient, one or more cationic substances. The inventive therapeutic animal chews are of sufficient durability to allow for a chewing cycle long enough for the release of the aforementioned cationic substances into saliva. Furthermore, the inventive animal chews may contain an effective amount of a counter-ionic compound, such as an alkali
metal salt, to allow for rapid solubilization of the cationic antimicrobial substance into the saliva of an animal chewing thereupon, especially when delivered or carried on a carrier having a neg. charged surface.

ACCESSION NUMBER: 1997:244361 CAPLUS
DOCUMENT NUMBER: 126:224532
TITLE: Improved proteinaceous animal chew with dentally therapeutic cation
INVENTOR(S): Montgomery, Robert Eric
PATENT ASSIGNEE(S): Montgomery, Robert, Eric, USA
SOURCE: PCT Int. Appl., 13 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9706696	A1	19970227	WO 1996-US13236	19960815
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9667752	A1	19970312	AU 1996-67752	19960815
US 6074662	A	20000613	US 1996-698475	19960815
US 6737077	B1	20040518	US 1999-398156	19990916
PRIORITY APPLN. INFO.:			US 1995-2345P P	19950815
			US 1996-698475 A1	19960815
			WO 1996-US13236 W	19960815

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(improved proteinaceous animal chew with dentally therapeutic cation)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

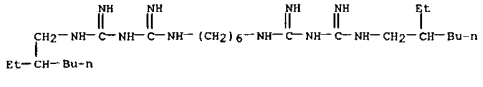


AB The present invention relates to oral hygiene and specifically to an improved method for adding chemotherapeutic agents to dental floss containing
several multi-fiber bundles, to methods of treating the oral cavity with the improved dental floss. The expanded interstitial space multifiber dental floss slips easily between teeth, exhibits good release of the therapeutic agents, and effectively entraps and removes debris, food particles, etc. The therapeutic floss offers a new treatment for plaque control and for gingivitis control. An emulsion containing Poloxamer 407 87.1, sorbitol 10.5, NaF 1.7, cetylpyridinium chloride 0.63, and domiphen bromide 0.07% was introduced into texturized floss made of nylon 6.6.

ACCESSION NUMBER: 1996:87000 CAPLUS
DOCUMENT NUMBER: 124:126930
TITLE: Improvements in dental floss by incorporating therapeutic agents
INVENTOR(S): Hill, Ira D.; Schweigert, Michael R.
PATENT ASSIGNEE(S): Whitehill Oral Technologies, Inc., USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9530404	A1	19951116	WO 1995-US5624	19950508
W: BR, CA, CN, JP, SG				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5711935	A	19980127	US 1994-240149	19940510
CA 2190016	AA	19951116	CA 1995-2190016	19950508
EP 759739	A1	19970305	EP 1995-918997	19950508
EP 759739	B1	20040324		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
BR 9507681	A	19970923	BR 1995-7681	19950508
JP 10500110	T2	19980106	JP 1995-529115	19950508
AT 262310	E	20040415	AT 1995-918997	19950508
PRIORITY APPLN. INFO.:			US 1994-240149 A	19940510
			WO 1995-US5624 W	19950508

IT **22573-93-9**, Alexidine
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(texturized multifibers containing therapeutic agents for manufacture of dental
floss)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 66 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 67 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Antimicrobial treatment of textile material, cellulose or cellulose blends, comprises applying to the textile an oligomeric biguanide or its salt with an inorg. or an organic acid having pK >4.5 and a strong organic acid having pK <4.5 and free from any aliphatic or oxyalkylene chains containing ≥12 C. The acids protect the treated material against yellowing in the presence of chlorine bleaches and loss of antimicrobial activity on laundering. The preferred biguanide is poly(hexamethylene biguanide).

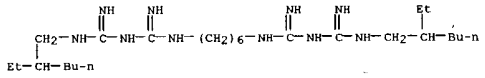
ACCESSION NUMBER: 1995:826534 CAPLUS
DOCUMENT NUMBER: 123:231244
TITLE: Antimicrobial treatment of textile materials with biguanides and textiles treated with
INVENTOR(S): Payne, John David
PATENT ASSIGNEE(S): Zeneca Ltd., UK
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9512021	A1	19950504	WO 1994-GB2184	19941007
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9477902	A1	19950522	AU 1994-77902	19941007
EP 724659	A1	19960807	EP 1994-928483	19941007
R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, SE				
JP 09504343	T2	19970428	JP 1994-512465	19941007
ZA 9407973	A	19950502	ZA 1994-7973	19941012
US 5700742	A	19971223	US 1996-632449	19960418
PRIORITY APPLN. INFO.:			GB 1993-22132 A	19931027
			WO 1994-GB2184 W	19941007

OTHER SOURCE(S): MARPAT 123:231244

IT **22573-93-9**
RL: NUU (Other use, unclassified); USES (Uses)
(antimicrobial treatment of cellulosic textiles by)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 67 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 68 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The present invention covers a method for disinfecting a contact lens including contacting the lens with an isotonic aqueous solution comprising 0.6 to 2 weight percent tromethamine (preferably 0.8 to 1.5%) for a time sufficient to disinfect the lens. Other aspects include adding to the solution from 0.01 to 1 weight percent chelating agent (preferably disodium EDTA) and/or addnl. microbicide.

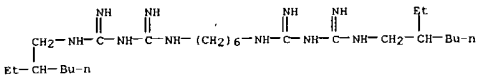
ACCESSION NUMBER: 1995:687110 CAPLUS
DOCUMENT NUMBER: 123:93395
TITLE: Method and composition for disinfecting contact lenses
INVENTOR(S): Mowrey Mckee, Mary; Bliznik, Kenneth; Stone, Ralph
PATENT ASSIGNEE(S): Allergan, Inc., USA
SOURCE: U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 634, 994, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5422073	A	19950606	US 1993-78164	19930617
WO 9211876	A1	19920723	WO 1991-US9185	19911218
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MW, NO, PL, RO, SD, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
EP 766970	A2	19970409	EP 1996-115750	19911218
EP 766970	A3	20000223		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
US 5500186	A	19960319	US 1995-401847	19950310
US 5593637	A	19970114	US 1996-592750	19960126
US 5817277	A	19981006	US 1996-730509	19961011
US 5756045	A	19980526	US 1996-755800	19961122
PRIORITY APPLN. INFO.:			US 1990-634994 B2	19901227
			WO 1991-US9185 W	19911218
			EP 1992-901547 A3	19911218
			US 1993-78164 A3	19930617
			US 1995-401847 A3	19950310
			US 1996-592750 A3	19960126

IT **22573-93-9**, Alexidine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(disinfecting contact lenses)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 68 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 69 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

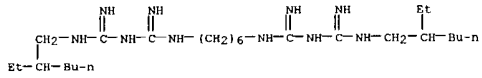
AB Contact lenses are disinfected with solns. comprising about 2 to about 90 ppm of a salt of an N-acyl-L-arginine ester or a derivative thereof. Optional addnl. ingredients in the solns. include buffer, solute to render the solution isotonic, addnl. microbicide, and chelating agents. The invention also comprises a method for disinfecting contact lenses with the inventive solns., as well as tablets, unit doses and kits for forming the solns. An effervescent tablet formulation for disinfecting contact lenses contains N-cocoyl-L-arginine Et ester DL-pyrrolidone carboxylic acid salt (CAE), adipic acid, and Na carbonate. CAE-containing solns. were effective disinfectants.

ACCESSION NUMBER: 1994:663693 CAPLUS
DOCUMENT NUMBER: 121:263693
TITLE: Method and composition for disinfecting contact lenses using a salt of an N-acyl-L-arginine ester or a derivative
INVENTOR(S): Gu, Ben; Bliznik, Kenneth E.
PATENT ASSIGNEE(S): Wesley-Jessen Corp., USA
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9419027	A1	19940901	WO 1994-US1607	19940223
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9462402	A1	19940914	AU 1994-62402	19940223
PRIORITY APPLN. INFO.:			US 1993-23649 A	19930226
			WO 1994-US1607 W	19940223

IT **22573-93-9**, Alexidine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(addnl. microbicide; N-acyl-L-arginine ester salts or derivs. in contact lens disinfectant solns. and method and tablets and kits)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 69 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



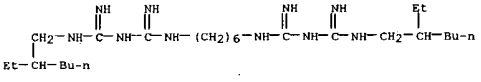
L4 ANSWER 70 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Materials and methods for preparing the surface of dentin, enamel, or other natural or industrial substrates containing or capable of binding metallic ions, for adhesion of composite materials or resins, are disclosed. The surface of a dentin was cleaned with a solution of 2.5% nitric acid followed by drying the surface and application of a 5% acetone solution of N(p-tolyl)glycine and glycidyl methacrylate adduct. To the surface was then applied one drop of a 10% acetone solution of a reaction product of pyromellitic dianhydride and glycerol dimethacrylate and the surface was kept wet with this soln for 30 s, after which excess solvent was evaporated and the surface blown dry. An unfilled light-cure resin was applied to the surface and cured for 30 s, then a conventional self-curing composite restorative material was applied. The average adhesive bond strength to dentin after soaking in water for 1 day was 216 psi.

ACCESSION NUMBER: 1994:307538 CAPLUS
DOCUMENT NUMBER: 120:307538
TITLE: Adhesion-promoting agents for composite materials incorporating polyvalent cations
INVENTOR(S): Bowen, Rafael L.
PATENT ASSIGNEE(S): American Dental Assoc. Health Foundation, USA
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5270351	A	19931214	US 1992-898516	19920615
US 5401783	A	19950328	US 1993-158115	19931124
US 5789610	A	19980804	US 1995-370538	19950109
PRIORITY APPLN. INFO.:			US 1992-898516 A3	19920615
			US 1993-158115 A3	19931124

IT **22573-93-9D**, Alexidine, salts
RL: BIOL (Biological study)
(adhesion promoting agents containing, for composite materials)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 71 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Tooth staining associated with the use of cationic bactericides-containing dentifrices is suppressed by incorporation of PVP into the compns. A toothpaste comprised glycerol 8.00, hydroxyprpylmethylcellulose 3.40, PVP 20.00, chlorhexidine digluconate (20%) 5.30, Na saccharin 0.10, silica 16.00, Pluronic F108 2.00, NaF 0.22, Talin 0.02, flavor 0.02, and water to 100%.

ACCESSION NUMBER: 1993:588325 CAPLUS
DOCUMENT NUMBER: 119:188325
TITLE: Nonstaining dentifrices comprising cationic bactericides and PVP.
INVENTOR(S): Barnett, Paul; Burgon-Lyon, Kirsty
PATENT ASSIGNEE(S): SmithKline Beecham P.L.C., UK
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

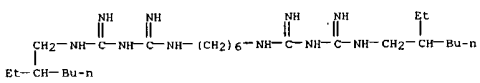
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9316681	A1	19930902	WO 1993-GB390	19930225
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9335714	A1	19930913	AU 1993-35714	19930225
AU 665237	B2	19951221		
ZA 9301317	A	19940825	ZA 1993-1317	19930225
EP 627908	A1	19941214	EP 1993-904254	19930225
EP 627908	B1	19981111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07504186	T2	19950511	JP 1993-514665	19930225
EP 862909	A2	19980909	EP 1998-200795	19930225
EP 862909	A3	19980923		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
AT 173153	E	19981115	AT 1993-904254	19930225
ES 2123638	T3	19990116	ES 1993-904254	19930225
HK 1012286	A1	20000505	HK 1998-113626	19981216

PRIORITY APPLN. INFO.:

GB 1992-4410	A	19920229
EP 1993-904254	A3	19930225
WO 1993-GB390	A	19930225

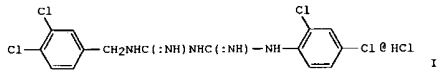
IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(dentifrices containing PVP and, nonstaining)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 71 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 72 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I

AB Title compds. R1NHC(:NH)NHC(:NH)NHR2 [R1 = (substituted) PhCH2, (substituted) Ph; R2 = (substituted) alkyl, substituted Ph, cyclohexylmethyl, etc.], useful as bactericides, are prepared by reacting the appropriate amine with a cyanoguanidine. Equimol. amts. of N1-cyano-N3-(3,4-dichlorobenzyl)guanidine and 3,4-Cl2C6H3NH2·HCl were refluxed for 2 h to give the biguanide I. In test against Staphylococcus aureus MRSA 57 the min. inhibitory concentration of I was 0.39 μg/mL. Generic injectable formulations containing the title compds. are given.

ACCESSION NUMBER: 1993:516980 CAPLUS
DOCUMENT NUMBER: 119:116980
TITLE: Preparation of biguanide derivatives as disinfectants
INVENTOR(S): Ishikawa, Hiroshi; Yasumura, Koichi; Tsubouchi, Hidetsugu; Higuchi, Yukio; Tamaoka, Hisashi
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 507317	A2	19921007	EP 1992-105776	19920403
EP 507317	A3	19930224		
EP 507317	B1	19970115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
JP 04308562	A2	19921030	JP 1991-73202	19910405
IN 181293	A	19980509	IN 1992-DE289	19920331
CA 2064664	AA	19921006	CA 1992-2064664	19920401
CA 2064664	C	20000111		
AU 9214016	A1	19921008	AU 1992-14016	19920402
AU 651184	B2	19940714		
US 5376686	A	19941227	US 1992-863420	19920403
AT 147725	E	19970215	AT 1992-105776	19920403
ES 2099176	T3	19970516	ES 1992-105776	19920403
CN 1065453	A	19921021	CN 1992-102352	19920404
CN 1038248	B	19980506		
JP 05194361	A2	19930803	JP 1992-155336	19920615

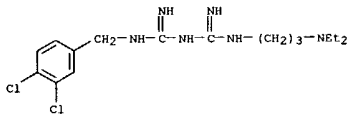
PRIORITY APPLN. INFO.:

JP 1991-73202	A	19910405
JP 1991-147644	A	19910619
JP 1991-224306	A	19910904

OTHER SOURCE(S): MARPAT 119:116980

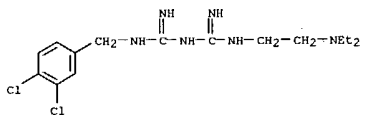
L4 ANSWER 72 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

IT **146510-14-7P 146510-17-0P 146510-19-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as bactericide)
RN 146510-14-7 CAPLUS
CN Imidodicarbonimidic diamide, N-[(3,4-dichlorophenyl)methyl]-N'-[3-(diethylamino)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)

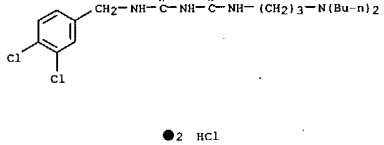


● HCl

RN 146510-17-0 CAPLUS
CN Imidodicarbonimidic diamide, N-[(3,4-dichlorophenyl)methyl]-N'-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



RN 146510-19-2 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(dibutylamino)propyl]-N'-[(3,4-dichlorophenyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 72 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 73 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB An osmotic device for the controlled delivery of a beneficial agent to an oral cavity of an animal over an extended delivery period is disclosed. The device has a size and shape suitable for comfortably retaining the device in the oral cavity, the device including a wall surrounding a solid dose of the drug, and a fibrous support material comprised of hydrophilic water-insol. fibers. An osmotic device containing captopril was described.

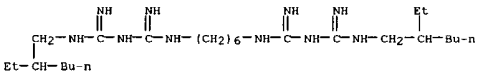
ACCESSION NUMBER: 1993:415343 CAPLUS
DOCUMENT NUMBER: 119:15343
TITLE: Oral osmotic device
INVENTOR(S): Edgren, David E.; Bhatti, Gurdish K.
PATENT ASSIGNEE(S): Alza Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5200194	A	19930406	US 1991-809741	19911218
WO 9311748	A1	19930624	WO 1992-US11130	19921218
W: AU, CA, FI, JP, KR, NO, NZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9333333	A1	19930719	AU 1993-33333	19921218
ZA 9209848	A	19940113	ZA 1992-9848	19921218
EP 617611	A1	19941005	EP 1993-901940	19921218
EP 617611	B1	19960131		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 07506806	T2	19950727	JP 1992-511214	19921218
AT 133561	E	19960215	AT 1993-901940	19921218
ES 2082626	T3	19960316	ES 1993-901940	19921218

PRIORITY APPLN. INFO.: US 1991-809741 A 19911218
WO 1992-US11130 A 19921218

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(therapeutic oral osmotic device containing)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



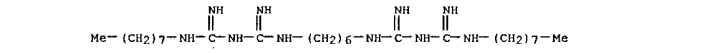
L4 ANSWER 74 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The FAB-MS and FAB-MS-MS behavior of Me(CH2)n{NHC(:NH)NHC(:NH)NH(CH2)m}xNHC(:NH)NHC(:NH)NH(CH2)nMe (n = 3, 4, 7; m = 4, 6, 7, 9, 11, 12; x = 1, 3) were studied. MS-MS product ion scans showed that fragmentation of these species occurred by predictable cleavages of the biguanide chains. Results are presented from a number of MS-MS precursor ion and neutral loss scans studied in an attempt to develop a screening method for biguanides in complex mixts. The most effective of these scans is shown to be the neutral loss of the N-alkylguanidine mols. Use of this scan is demonstrated for a mixture of oligomeric biguanides.

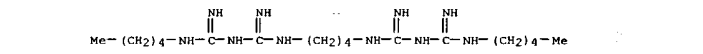
ACCESSION NUMBER: 1993:123931 CAPLUS
DOCUMENT NUMBER: 118:123931
TITLE: Development of a fast atom bombardment tandem mass spectrometric screening method for alkyl-ended oligomeric biguanides
AUTHOR(S): Monaghan, J. J.; Morden, W. E.
CORPORATE SOURCE: ICI Chem. and Polym. Ltd., Runcorn/Cheshire, WA7 4QD, UK
SOURCE: International Journal of Mass Spectrometry and Ion Processes (1992), 122, 231-41
CODEN: IJMPDN; ISSN: 0168-1176
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **109752-50-3 146434-17-5 146434-18-6 146434-19-7 146434-20-0 146434-21-1 146434-22-2 146434-23-3**
RL: PRP (Properties)
(fast atom bombardment tandem mass spectra of)

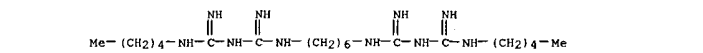
RN 109752-50-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl- (9CI) (CA INDEX NAME)



RN 146434-17-5 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, 3,10-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)

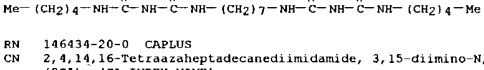


RN 146434-18-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)

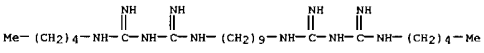


L4 ANSWER 74 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

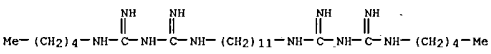
RN 146434-19-7 CAPLUS
CN 2,4,12,14-Tetraazapentadecanediimidamide, 3,13-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)



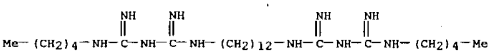
RN 146434-20-0 CAPLUS
CN 2,4,14,16-Tetraazaheptadecanediimidamide, 3,15-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)



RN 146434-21-1 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)

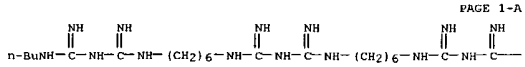


RN 146434-22-2 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-dipentyl- (9CI) (CA INDEX NAME)

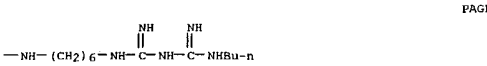


RN 146434-23-3 CAPLUS
CN 2,4,11,13,15,22,24,26,33,35-Decaazahexatriacontanediimidamide, N,N''-dibutyl-3,12,14,23,25,34-hexaimino- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B'



L4 ANSWER 74 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

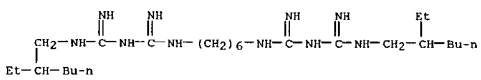
L4 ANSWER 75 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Liposomes manufactured from nonionic amphiphilic lipids and ≥1 antimicrobial agent are disclosed. A mouthwash for dental plaques contained liposomes manufactured from a nonionic lipid 1.9, cholesterol 1.9,
Acylglutamate HS 11 (Na glutamate alkyl derivative) 0.2, and 20% solution of
Arlacide G (chlorhexidine digluconate) 8 g by conventional methods.

ACCESSION NUMBER: 1993:109439 CAPLUS
DOCUMENT NUMBER: 118:109439
TITLE: Liposomes for buccal and dental compositions containing antimicrobials
INVENTOR(S): Handjani, Rose Marie; Ribier, Alain; Bernard, Dominique; Cotteret, Jean; Forestier, Serge; Ascione, Jean Marc
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9220319	A1	19921126	WO 1992-FR441	19920518
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
FR 2676362	A1	19921120	FR 1991-6007	19910517
FR 2676362	B3	19930813		
PRIORITY APPLN. INFO.:			FR 1991-6007 A	19910517

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(liposomes containing, in manufacture of antiplaque dentifrices)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 76 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

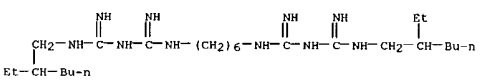
AB Contact lenses are disinfected by contacting the lens with an isotonic aqueous
solution comprising 0.6-2 weight% tromethamine. The solution may also contain a
chelating agent such as di-Na EDTA and/or addnl. microbicides. A solution
was prepared containing tromethamine 1.2%, NaCl 0.3%, HCl to pH 7.4, and purified water to 100 mL. Isotonic solns. containing 1.2% tromethamine decreased the concns. of Serratia marcescens and Candida albicans by a factor of 10. Tromethamine had a synergistic effect when combined with di-Na EDTA.

ACCESSION NUMBER: 1992:557713 CAPLUS
DOCUMENT NUMBER: 117:157713
TITLE: Method and composition for disinfecting contact lenses
INVENTOR(S): Mowrey-McKee, Mary; Bliznik, Kenneth; Stone, Ralph
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9211876	A1	19920723	WO 1991-US9185	19911218
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MW, NO, PL, RO, SD, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
CA 2098299	AA	19920628	CA 1991-2098299	19911218
CA 2098299	C	19970520		
AU 9191060	A1	19920817	AU 1991-91060	19911218
AU 653768	B2	19941013		
EP 564510	A1	19931013	EP 1992-901547	19911218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
HU 65710	A2	19940728	HU 1993-1879	19911218
HU 212184	B	19960328		
BR 9107284	A	19940927	BR 1991-7284	19911218
RU 2067456	C1	19961010	RU 1993-48171	19911218
EP 766970	A2	19970409	EP 1996-115750	19911218
EP 766970	A3	20000223		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
IL 100487	A1	19960618	IL 1991-100487	19911224
US 5422073	A	19950606	US 1993-78164	19930617
KR 127768	B1	19971226	KR 1993-71959	19930626
PRIORITY APPLN. INFO.:			US 1990-634994 A2	19901227
			EP 1992-901547 A3	19911218
			WO 1991-US9185 A	19911218

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(contact lens disinfecting solns. containing tromethamine and)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 76 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 77 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Substituted urea, thiourea, and guanidino compds., and salts thereof, are useful as cell receptor antagonists for modulating cell adhesion via integrin and/or fibronectin receptors. These compds. are used for diagnosis, treatment, or prevention of cardiovascular and autoimmune diseases or conditions involving cell adhesion. Thus, 3,4-dichlorophenylguanidine was reacted with 3,5-dimethylpyrazolecarboxamidine nitrate to obtain 1-(3,4-dichlorophenyl)biguanide nitrate (I). The IC50 of I was 65μM in a U937 cell fibronectin adhesion assay.

ACCESSION NUMBER: 1992:543489 CAPLUS
DOCUMENT NUMBER: 117:143489
TITLE: preparation of substituted urea and related compounds as cell adhesion modulators
INVENTOR(S): McKenzie, Thomas C.; Rishton, Gilbert M.
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

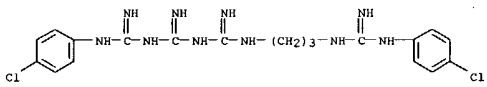
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9208464	A1	19920529	WO 1991-US8528	19911114
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
PRIORITY APPLN. INFO.:			US 1990-613412 A2	19901115

OTHER SOURCE(S): MARPAT 117:143489

IT **143413-11-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for cell adhesion inhibitor)

RN 143413-11-0 CAPLUS

CN 2,4,6,10-Tetraazaundecanediimidamide, N,N''-bis(4-chlorophenyl)-3,5-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 78 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A dentifrice comprises ≥1 cationic antibacterial antiplaque agent which stains or discolor dental surface, and as antistaining additive, an azacycloalkane diphosphonic acid or salt therof. A mouth rinse contained chlorhexidine gluconate 0.12, cocoamidopropyl betaine 0.25, Na azacycloalkane diphosphonic acid 0.59, Na saccharin 0.01, glycerin 10.00, EtOH 10.00, flavor 0.04, and water q.s. 100.00% at ph 7. The above mouth rinse decreased plaques developed on human incisors by treatment with Actinomyces viscous and Streptococus mutans by 86%.

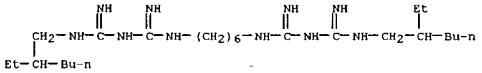
ACCESSION NUMBER: 1992:414263 CAPLUS
DOCUMENT NUMBER: 117:14263
TITLE: Non-staining antibacterial dentifrices
INVENTOR(S): Gaffar, Abdul; Polefka, Thomas G.
PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 480811	A2	19920415	EP 1991-402671	19911007
EP 480811	A3	19930127		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
US 5158763	A	19921027	US 1990-594598	19901009
AU 9184539	A1	19920416	AU 1991-84539	19910917
CA 2052979	AA	19920410	CA 1991-2052979	19911008
JP 04257511	A2	19920911	JP 1991-262207	19911009
PRIORITY APPLN. INFO.:			US 1990-594598 A	19901009

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(dentifrice containing diphosphonate antistaining agent and)

RN 22573-93-9 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 79 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A dentifrice for use in treating periodontal disease, calculus, and/or caries and comprising a cationic antibacterial agent combines a nonionic thickening agent, a nonionic, cationic or amphoteric surfacetant, and an abrasive which is either a sparingly soluble salt, in combination with an agent to suppress anion formation, or an essentially insol. compound such as silica, preferably with an anion content of <1%. A dentifrice was formulated from glycerin 22.0, hydroxypropyl Me cellulose 3.6, chalk 32.0, dicalcium phosphate 3.0, CaCl2 0.01, saccharin 0.10, thaumatin 0.02, flavor 1.00, benzethonium chloride 1.00, Poloxamer 338 2.00, and H2O to 100.00%.

ACCESSION NUMBER: 1991:435524 CAPLUS
DOCUMENT NUMBER: 115:35524
TITLE: Dentifrices comprising cationic antibacterial agents
INVENTOR(S): Alexander, Stephen Edward; Doel, Geoffrey Royston; Edwards, Peter John
PATENT ASSIGNEE(S): Beecham Group PLC, UK
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

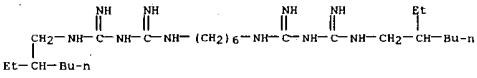
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 422803	A2	19910417	EP 1990-310633	19900928
EP 422803	A3	19910605		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2026509	AA	19910412	CA 1990-2026509	19900928
NO 9004252	A	19910412	NO 1990-4252	19900928
AU 9063608	A1	19910418	AU 1990-63608	19900928
AU 644104	B2	19931202		
JP 03127718	A2	19910530	JP 1990-257563	19900928
ZA 9007781	A	19920527	ZA 1990-7781	19900928
PRIORITY APPLN. INFO.:			GB 1989-22920 A	19891011
			GB 1989-22921 A	19891011

OTHER SOURCE(S): MARPAT 115:35524

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(as bactericide in antibacterial dentifrice)

RN 22573-93-9 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 80 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

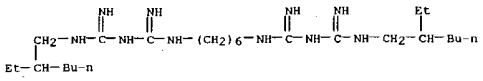
AB Contact lenses are simultaneously cleaned and disinfected by contacting the lenses with an aqueous system containing an antimicrobial agent and a proteolytic enzyme. The aqueous solns. have suitable osmotic values which do not substantially inhibit the activity of the antimicrobial agent. Thus, a composition containing subtilisn A and alexidine dihydrochloride removed lysozyme deposits from contact lenses. The compns. of the invention were also tested for antimicrobial activity against Serratia marcescens.

ACCESSION NUMBER: 1991:415591 CAPLUS
DOCUMENT NUMBER: 115:15591
TITLE: Composition containing antimicrobial agent and proteolytic enzyme for cleaning and disinfecting contact lenses
INVENTOR(S): Mowrey-McKee, Mary F.; Proud, David W.; Minno, George E.
PATENT ASSIGNEE(S): Bausch and Lomb Inc., USA
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 384666	A2	19900829	EP 1990-301706	19900216
EP 384666	A3	19910123		
EP 384666	B1	19941109		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
CA 2009118	AA	19900821	CA 1990-2009118	19900201
CA 2009118	C	19960227		
ES 2066966	T3	19950316	ES 1990-301706	19900216
AU 9049989	A1	19900830	AU 1990-49989	19900220
AU 628926	B2	19920924		
JP 02289255	A2	19901129	JP 1990-37540	19900220
BR 9000775	A	19910122	BR 1990-775	19900220
US 5096607	A	19920317	US 1990-515290	19900427
US 5096607	B1	19981027		
US 5096607	C2	20020820		
AU 9230439	A1	19930211	AU 1992-30439	19921224
AU 675414	B2	19970206		
US 2003125221	A1	20030703	US 2002-289023	20021105
PRIORITY APPLN. INFO.:			US 1989-313643 A	19890221
			US 1990-515290 A3	19900427
			US 1992-852617 B1	19920313
			US 1993-72809 B3	19930607
			US 1994-269721 B1	19940701
			US 2000-642318 B1	20000821

IT **1715-30-6**, Alexidine dihydrochloride
RL: BIOL (Biological study)
(disinfectant composition containing proteolytic enzyme and, for contact lens)

L4 ANSWER 80 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



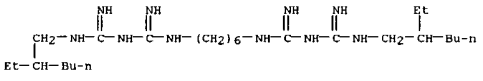
●2 HCl

L4 ANSWER 81 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A dentifrice comprises a biguanido and/or N-alkyldiaminoglycine bactericide, a polyoxyethylene-polyoxypropylene block copolymer surfactant and a N-acylamino acid or its salt. The dentifrice has high bactericidal activity and good foaming properties. A toothpaste comprised chlorhexidine acetate 0.2, Pluronic F87 25.0, Na N-myristoylglutamate 0.5, Al(OH)3 25.0, polyethylene glycol 8.0, saccharin Na 0.4, flavor 1.0, azulene 0.2, and water to 100% by weight
ACCESSION NUMBER: 1991:234890 CAPLUS
DOCUMENT NUMBER: 114:234890
TITLE: Dentifrice compositions comprising bactericides and pluronic
INVENTOR(S): Mori, Shigeki; Makino, Chiho
PATENT ASSIGNEE(S): Sunstar, Inc., Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 395287	A2	19901031	EP 1990-304103	19900417
EP 395287	A3	19910327		
EP 395287	B1	19940629		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02282317	A2	19901119	JP 1989-104151	19890424
JP 08025861	B4	19960313		
US 5035881	A	19910730	US 1990-509344	19900416
CA 2014680	AA	19901024	CA 1990-2014680	19900417
CA 2014680	C	20010731		
ES 2062349	T3	19941216	ES 1990-304103	19900417
NO 9001785	A	19901025	NO 1990-1785	19900423
NO 177124	B	19950418		
NO 177124	C	19950726		
CN 1046674	A	19901107	CN 1990-102539	19900424
CN 1039966	B	19980930		
KR 137656	B1	19980515	KR 1990-5765	19900424
PRIORITY APPLN. INFO.:			JP 1989-104151 A	19890424

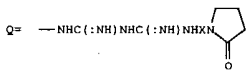
IT **1715-30-6**
RL: BIOL (Biological study)
(dentifrices containing)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 81 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

L4 ANSWER 82 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



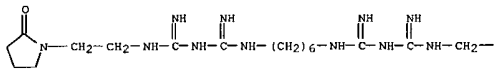
AB Title compds. AZA (I; A = Q; X = C2-4 alkylene; Z = bivalent bridging group) and addition salts thereof, useful against gram-neg. and -pos. bacteria and fungi, are prepared 1,6-Bis(cyanoguanidino)hexane (preparation given), N-(2-aminoethyl)-2-pyrrolidone-HCl and BuOH were refluxed at 117° for 17 h to give 90% I [A = Q, X = CH2CH2, Z = (CH2)6] (II). The min. inhibitory concentration of II in ppm against Escherichia coli and Pseudomonas aeruginosa was 250 for each, against Streptococcus pyrogenes and Staphylococcus aureus ≤50 and ≤100, resp., and against fungi 100.
ACCESSION NUMBER: 1991:42568 CAPLUS
DOCUMENT NUMBER: 114:42568
TITLE: Preparation of bis(pyrrolidonylalkylene)biguanides as antimicrobial agents
INVENTOR(S): Merianos, John J.
PATENT ASSIGNEE(S): GAF Chemicals Corp., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4952704	A	19900828	US 1989-350882	19890512
WO 9013536	A1	19901115	WO 1990-US1840	19900409
W: JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
EP 471683	A1	19920226	EP 1990-905921	19900409
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04505318	T2	19920917	JP 1990-505887	19900409
CA 2014346	AA	19901112	CA 1990-2014346	19900411
PRIORITY APPLN. INFO.:			US 1989-350882 A	19890512
			WO 1990-US1840 W	19900409

OTHER SOURCE(S): CASREACT 114:42568; MARPAT 114:42568
IT **131370-31-5P 131370-33-7P 131370-34-8P**
131385-72-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as medical bactericide and medical fungicide)
RN 131370-31-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis[2-(2-oxo-1-pyrrolidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

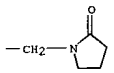
L4 ANSWER 82 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



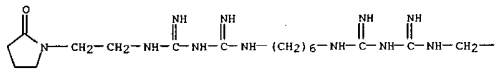
●2 HCl

PAGE 1-B

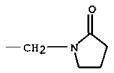


RN 131370-33-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis[2-(2-oxo-1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

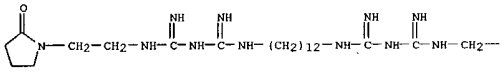


PAGE 1-B



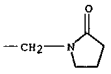
RN 131370-34-8 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis[2-(2-oxo-1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



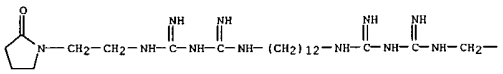
L4 ANSWER 82 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



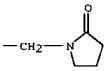
RN 131385-72-3 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis[2-(2-oxo-1-pyrrolidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

PAGE 1-B



L4 ANSWER 83 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The problem of formulating a dentifrice which is compatible with a bis-biguanide antibacterial agent, for instance chlorhexidine or alexidine, is solved by using a nonionic thickening agent, a nonionic surfactant, and an abrasive which is either a sparingly-soluble salt, for instance CaCO3, (used in combination with an agent to suppress anion formation), and/or an insol. compound, for instance, a silica of low anion content. Preferably, the composition has a flavor which is mainly aniseed, balanced by mints. Preferably during the preparation of a silica-containing dentifrice, chlorhexidine and saccharin are added together at an early stage, prior to the addition of silica, to avoid the formation of lumps. Such dentifrices are useful in the prophylaxis and/or treatment of periodontal disease and caries. A toothpaste comprised chlorhexidine digluconate 1.00, glycerol 18.00, hydroxypropyl Me cellulose 3.60, chalk 32.00, di-Ca phosphate dihydrate 3.00, 1% CaCl2 solution 1.00, flavor 1.00, Poloxamer-338 2.00 and water to 100%. The flavor composition is given.

ACCESSION NUMBER: 1990:578049 CAPLUS
DOCUMENT NUMBER: 113:178049
TITLE: Dentifrices containing bis(biguanide) bactericides
INVENTOR(S): Alexander, Stephen Edward; Doel, Geoffrey Royston; Edwards, Peter John
PATENT ASSIGNEE(S): Beecham Group PLC, UK
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 364245	A2	19900418	EP 1989-310405	19891011
EP 364245	A3	19900801		
EP 364245	B1	19940302		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2000464	AA	19900413	CA 1989-2000464	19891011
CA 2000464	C	19970916		
DK 8905047	A	19900414	DK 1989-5047	19891011
NO 8904062	A	19900417	NO 1989-4062	19891011
AU 8942785	A1	19900426	AU 1989-42785	19891011
AU 625241	B2	19920702		
IN 170282	A	19920307	IN 1989-MA741	19891011
ZA 8907697	A	19920624	ZA 1989-7697	19891011
AT 102017	E	19940315	AT 1989-310405	19891011
ES 2062028	T3	19941216	ES 1989-310405	19891011
AT 154232	E	19970615	AT 1993-202062	19891011
ES 2106264	T3	19971101	ES 1993-202062	19891011
JP 02129118	A2	19900517	JP 1989-264090	19891012
JP 3160717	B2	20010425		
BR 8905283	A	19900522	BR 1989-5283	19891013
EP 568160	A2	19931103	EP 1993-202062	19930713
EP 568160	A3	19940112		
EP 568160	B1	19970611		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 6143281	A	20001107	US 1999-322763	19990526
PRIORITY APPLN. INFO.:			GB 1988-24073 A	19881013

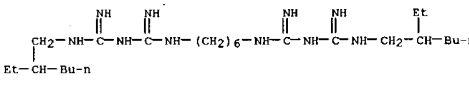
L4 ANSWER 83 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

	GB 1988-27913	A 19881130
	GB 1989-17580	A 19890801
	EP 1989-310405	A 19891011
	US 1989-420153	B1 19891011
	US 1994-307023	A1 19940914

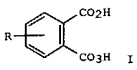
OTHER SOURCE(S): MARPAT 113:178049

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(dentifrice containing)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 84 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



AB A method for treating or preventing dental plaque, gingival or periodontal
diseases of oral cavity comprises topically applying to the surface of the
teeth or dentures (1) a monoperoxyphthalate compound (I; R = ≥1 substituents compatible with the peroxy acid functionality of aromatic ring)
or salts or esters thereof and (2) an anti-plaque bis-biguanide compound A(X)1NRC(:NH)NHC(:NH)NH(CH2)mNHC(:NH)NHC(:NH)NR1(X1)nB or salt thereof (A,
B = substituted Ph, C1-12 alkyl, C4-12 alicyclic group; X, X1 = C1-3 alkylene; 1, n,= 0, 1; R, R1 = H, C1-12 alkyl, C7-12 aralkyl; m = 2-12). A toothpaste contained Na saccharin 0.25, Mg monoperoxyphthalate 4, Na lauryl sulfate 2.68, NaF 0.33, TiO2 1.34, Cabosil 3.52, silica 20.09, peppermint oil 2, anethole oil 1, NaHCO3 1%, and mineral oil for the balance. A mouthwash contained chlorhexidine digluconate 0.12, 95% EtOH 10, glycerin 8, ethoxylated sorbitan di-isostearate 0.17, spearmint flavor
0.08, Na saccharin 0.01, 1% FD&C Blue No.1 0.011, and water to 100%. The toothpaste and the mouthwash were applied in sequence to prevent the dental plaque.

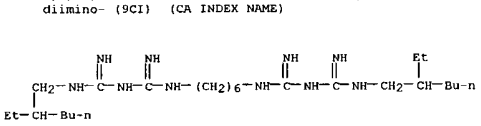
ACCESSION NUMBER: 1990:429139 CAPLUS
DOCUMENT NUMBER: 113:29139
TITLE: Dentifrices containing peroxyphthalates and bis-biguanides
INVENTOR(S): Charbonneau, Duane L.; Moore, Debra J.; Shulman, Joel I.
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4886658	A	19891212	US 1988-284262	19881214
EP 373429	A2	19900620	EP 1989-122125	19891130
EP 373429	A3	19900801		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DK 8906319	A	19900615	DK 1989-6319	19891214
AU 8946733	A1	19900621	AU 1989-46733	19891214
JP 02258715	A2	19901019	JP 1989-324883	19891214

PRIORITY APPLN. INFO.: US 1988-284262 A 19881214

OTHER SOURCE(S): MARPAT 113:29139
IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)

L4 ANSWER 84 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(antiplaque dentifrices contg. peroxyphthalate and)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 85 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Polymeric plyoxyalkylenediamine biguanides, having the repeating units XNHC(:NH)NHC(:NH)NHYNHC(:NH)NHC(:NH)NH (X = polyoxyalkylene; Y = X, C2-18 polymethylene) are prepared as microbicides, especially suitable for ophthalmic
preps. A mixture of 1,6-di-(N3-cyano-N1-guanidino)hexane, tetraethyleneglycoldiamine and HCl was heated to give a polymer. The product, in 0.02% aqueous solution, inhibited the growth of Aspergillus niger in
vitro.

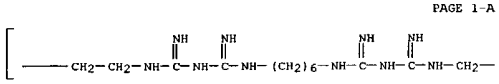
ACCESSION NUMBER: 1990:229718 CAPLUS
DOCUMENT NUMBER: 112:229718
TITLE: Preparation of polymeric biguanides as ophthalmic microbicides
INVENTOR(S): Stockel, Richard F.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4891423	A	19900102	US 1989-325872	19890320
WO 9011315	A1	19901004	WO 1990-US1324	19900319
W: JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
EP 668885	A1	19950830	EP 1990-905753	19900319
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				

PRIORITY APPLN. INFO.: US 1989-325872 A 19890320
WO 1990-US1324 W 19900319

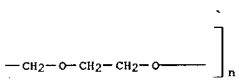
IT **127092-89-1P 127092-90-4P 127092-91-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as ophthalmic microbicide)
RN 127092-89-1 CAPLUS
CN Poly(oxy-1,2-ethanediyloxy-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A



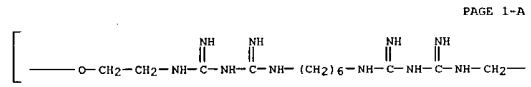
L4 ANSWER 85 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

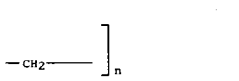


RN 127092-90-4 CAPLUS
CN Poly(oxy-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A

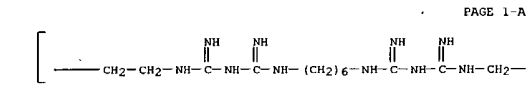


PAGE 1-B



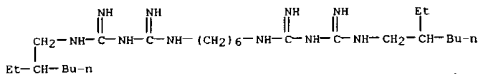
RN 127092-91-5 CAPLUS
CN Poly(oxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyl) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

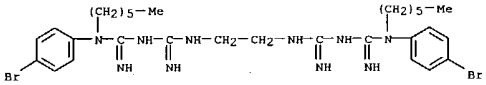
L4 ANSWER 86 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Unavailable
ACCESSION NUMBER: 1990:73697 CAPLUS
DOCUMENT NUMBER: 112:73697
TITLE: A comparative study of the mechanisms of action of alexidine and chlorhexidine against Escherichia coli ATCC 8739
AUTHOR(S): Chawner, Judith A.
CORPORATE SOURCE: Univ. Manchester, Manchester, UK
SOURCE: (1988) 341 pp. Avail.: Univ. Microfilms Int., Order No. BRD-85583
From: Diss. Abstr. Int. B 1989, 50(4), 1373
DOCUMENT TYPE: Dissertation
LANGUAGE: English
IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(Escherichia coli inhibition by, mechanism of)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 87 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A parasiticidal formulation contains 8-25 or 12-15% EtOH or PrOH, 0.2-0.7 or 0.3-0.6% H2O2, 0.1-0.5 or 0.2-0.4% carboxylic acid, and 0.05-1 or 0.05-0.5% bis- or oligobisguanide. This formulation can be used externally on anus skin to kill E. vermicularis eggs. The parasiticide was formulated using EtOH 10, lactic acid 0.2, H2O2 0.5, chlorhexidine gluconate 0.3, essential oil 0.1, ethoxylated castor oil 0.1, and water 100 parts. E. vermicularis eggs were killed within a few minutes by this composition
ACCESSION NUMBER: 1990:48770 CAPLUS
DOCUMENT NUMBER: 112:48770
TITLE: Bisguanide-containing formulation as parasiticide for external use against Enterobius vermicularis
INVENTOR(S): Guhl, Walter; Bansemir, Klaus
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 4 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3743374	A1	19890629	DE 1987-3743374	19871221
EP 321817	A1	19890628	EP 1988-120705	19881212
EP 321817	B1	19920304		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 72985	E	19920315	AT 1988-120705	19881212
ES 2045074	T3	19940116	ES 1988-120705	19881212
US 4942041	A	19900717	US 1988-287436	19881220
JP 01203321	A2	19890816	JP 1988-323200	19881221
PRIORITY APPLN. INFO.:			DE 1987-3743374	19871221
			EP 1988-120705	19881212

IT **117611-84-4 124899-68-9**
RL: BIOL (Biological study)
(pinworm infestation treatment with)
RN 117611-84-4 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(4-bromophenyl)-N,N''-dihexyl-3,8-diimino- (9CI) (CA INDEX NAME)



RN 124899-68-9 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,8-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 87 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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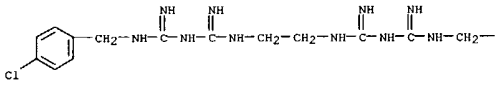
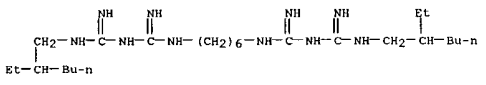


PAGE 1-B

L4 ANSWER 88 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Activity, uptake and disposition of 2 related bisbiguanide antiseptics, alexidine and chlorhexidine, were investigated. Rates of onset of membrane damage were faster following alexidine than chlorhexidine treatment. Deep-rough strains of E. coli were less sensitive than their smooth counterparts. While the uptake of both agents to whole cells corresponded to C-type, alexidine demonstrated addnl. high affinity uptake
at low applied drug concns. Distribution studies for the absorbed biocide
indicated that the agents must saturate a number of envelope targets before
penetration to the cytosol is possible. Alexidine possessed a higher affinity towards these sites than chlorhexidine.
ACCESSION NUMBER: 1990:4359 CAPLUS
DOCUMENT NUMBER: 112:4359
TITLE: Adsorption of alexidine and chlorhexidine to Escherichia coli and membrane components
AUTHOR(S): Chawner, Judi A.; Gilbert, Peter
CORPORATE SOURCE: Dep. Pharm., Univ. Manchester, Manchester, M13 9PL, UK
SOURCE: International Journal of Pharmaceutics (1989), 55(2-3), 209-15
CODEN: IJPHDE; ISSN: 0378-5173
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**, Alexidine
RL: PROC (Process)
(absorption of, to Escherichia coli membrane)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



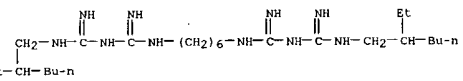
L4 ANSWER 89 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Strains of Providencia stuartii with demonstrated resistance towards chlorhexidine did not show such resistance towards either of the related biguanide antiseptics, alexidine or vantocil. Alexidine promoted a significantly faster alteration in the permeability of Escherichia coli cell membranes towards various metal cations than chlorhexidine. DTA of various mixed lipid vesicles and pure phospholipid vesicles showed alexidine to share with vantocil the property of producing lipid phase separation and domain formation. Apparently, the nature of the end-group on the biguanides affects the ability to produce lipid domains in cell membranes and this might, in turn, affect activity and resistance patterns observed

ACCESSION NUMBER: 1989:420763 CAPLUS
DOCUMENT NUMBER: 111:20763
TITLE: Interaction of the bisbiguanides chlorhexidine and alexidine with phospholipid vesicles: evidence for separate modes of action
AUTHOR(S): Chawner, Judi A.; Gilbert, P.
CORPORATE SOURCE: Dep. Pharm., Univ. Manchester, Manchester, M13 9PL, UK
SOURCE: Journal of Applied Bacteriology (1989), 66(3), 253-8
CODEN: JABAA4; ISSN: 0021-8847
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(bactericidal and growth inhibitory activity of, interaction with phospholipid vesicles in relation to)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



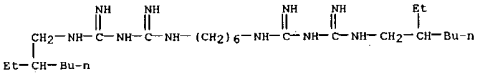
L4 ANSWER 90 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A comparative study was made of the growth-inhibitory and bactericidal activities of two related bisbiguanide antiseptics, alexidine and chorhexidine. Although overall bactericidal activities and MICs were similar, alexidine was more rapid in its action and it may possess addnl. targets at the cell envelope to chlorhexidine; the nature of the interaction at the cytoplasmic membrane for the two compds. differs.

ACCESSION NUMBER: 1989:420762 CAPLUS
DOCUMENT NUMBER: 111:20762
TITLE: A comparative study of the bactericidal and growth inhibitory activities of the bisbiguanides alexidine and chlorhexidine
AUTHOR(S): Chawner, Judi A.; Gilbert, P.
CORPORATE SOURCE: Dep. Pharm., Univ. Manchester, Manchester, M13 9PL, UK
SOURCE: Journal of Applied Bacteriology (1989), 66(3), 243-52
CODEN: JABAA4; ISSN: 0021-8847
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(bactericidal and growth-inhibitory activity of, chlorhexidine in relation to)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 91 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A fluid, H2O-containing disinfectant based on alc. and H2O2 contains ≥1 alc. which 2-8 C atoms, H2O2, or a peroxide-forming compound in the aqueous phase, ≥1 carboxylic acids, ≥1 microbicide-active N-containing organic compds., ≥1 microbicide-active phenolic compds. and other active materials and/or adjuvant and H2O. A typical composition contained EtOH 20, H2O2 0.5, lactic acid 0.2, chlorhexidine gluconate 0.1, etheric oil 0.1 (natural peppermint oil 91.4, Salol 4, anethol 3.5, eugenol 0.6 and thymol 0.5%), emulsifier (Cremophor RH 410) 0.1 weight%, and H2O balance. Activity against Staphylococcus aureus ATCC 6538 and Streptococcus faecalis was demonstrated. Addition of chlorhexidine gluconate enhanced the effectiveness compared to an alc.-H2O-carboxylic acid composition Addition of etheric oil provided a synergistic effect. Further, the pos. effects of a biguanide compound, a complexing agent, a phenolic microbicide, a N-containing organic compds. and an emulsifier were shown. The natural germ spectra of the throat and urogenital regions were reduced by 99% in 1 min.

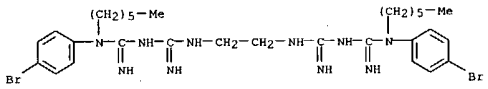
ACCESSION NUMBER: 1989:63805 CAPLUS
DOCUMENT NUMBER: 110:63805
TITLE: Water-containing disinfectant based on alcohol and hydrogen peroxide for skin and mucuos membrane
INVENTOR(S): Bansemir, Klaus; Disch, Karlheinz; Hachmann, Klaus
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3702983	A1	19871210	DE 1987-3702983	19870202
EP 252278	A2	19880113	EP 1987-107881	19870601
EP 252278	A3	19900912		
EP 252278	B1	19980819		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
AT 169797	E	19980915	AT 1987-107881	19870601
ES 2118705	T3	19981001	ES 1987-107881	19870601
JP 62292709	A2	19871219	JP 1987-145022	19870609
JP 08018939	B4	19960228		
US 4900721	A	19900213	US 1987-60138	19870609
CA 1277899	A1	19901218	CA 1987-539181	19870609
PRIORITY APPLN. INFO.:			DE 1986-3619376	19860609
			DE 1987-3702983	19870202

IT **117611-84-4**
RL: BIOL (Biological study)
(disinfectants containing, for skin and mucous membrane)

RN 117611-84-4 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-bis(4-bromophenyl)-N,N''-dihexyl-3,8-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 91 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



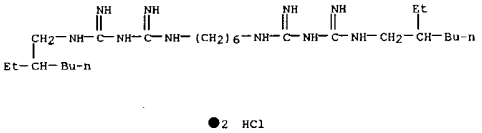
L4 ANSWER 92 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The effect of several organic compds. was studied on dental caries and plaque when used as oral rinses in rats. These compds. were equimolar with regard to their Cl- or F- moieties or the added NaF (0.26 M F). Test agents were dissolved in an aqueous glycerol vehicle and applied daily to the teeth of rats. Significant restriction in the mean incidence of dental caries (≥20%) was imparted by the following chems. used alone or in combination: alexidine dihydrochloride, alexidine dihydrochloride with NaF, lysine phosphate fluoride, silane polyamide fluoride, tiodonium chloride, and tiodonium chloride with NaF. Only the groups treated with alexidine chloride alone or in combination with NaF exhibited less dental plaque (≥64%) than the rats in the placebo-treated groups.

ACCESSION NUMBER: 1988:143437 CAPLUS
DOCUMENT NUMBER: 108:143437
TITLE: Effects of various organic compounds and fluoride on dental plaque and caries in rats
AUTHOR(S): Shern, R. J.
CORPORATE SOURCE: Epidemiol. Oral Dis. Prev. Program, Natl. Inst. Dent. Res., Bethesda, MD, USA
SOURCE: Caries Research (1988), 22(3), 181-6
CODEN: CAREBK; ISSN: 0008-6568
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **1715-30-6**, Alexidine dihydrochloride
RL: BIOL (Biological study)
(tooth caries or plaque inhibition by oral rinse containing)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 93 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

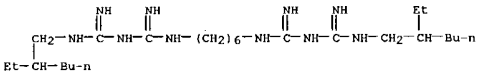
AB The title rinse composition comprises a solution containing a biocide to retard plaque formation, ≥1% benzoic acid salt, and detersive amts. of an oral surfactant and is effective in loosening plaque present on dental surfaces, rendering it amenable to removal by brushing. This rinse reduced both dental plaque and gingival inflammation when used in a regular home dental care regimen. A dental rinse contained NaOBz 2.0, Na salicylate 0.2, NaHCO3 0.5, Na borate 0.2, 1% aqueous FDC Red 40 0.8, 94% Na lauryl sulfate 0.5, Polysorbate 20 0.8, flavor other than Na saccharin 0.3, 95% EtOH 7.0, water 72.58, glycerin 15.0, Na saccharin 0.02, and chlorhexidine gluconate 0.10% by weight

ACCESSION NUMBER: 1988:118760 CAPLUS
DOCUMENT NUMBER: 108:118760
TITLE: Dental rinse composition for loosening and retarding the buildup of plaque on dental surfaces comprising a biocide, a benzoic acid salt, and an oral surfactant
INVENTOR(S): Goldemberg, Robert L.
PATENT ASSIGNEE(S): Oral Research Laboratories, Inc., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8705501	A1	19870924	WO 1987-US553	19870316
W: AU, DK, FI, JP, NO				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8772047	A1	19871009	AU 1987-72047	19870316
PRIORITY APPLN. INFO.:			US 1986-840498 A	19860317
			WO 1987-US553 A	19870316

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(mouthwashes containing, for use before brushing, for reduction of dental plaque)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 94 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Antibacterial oral compns., especially mouthwashes, contain an oral vehicle, an antibacterial bis(biguanido)hexane, and a mixture of at least two essential oils selected from thymol, eucalyptol, Me salicylate, and menthol. The mixture of the bis-biguanido hexane compound and the essential oils is synergistic. The synergistic compns. are useful for the prevention of dental caries and plaque. A mixture containing chlorhexidine, thymol, eucalyptol, Me salicylate, and menthol had a Fractional Inhibitory Concentration (FIC) index of 0.18-0.37 against Streptococcus mutans; an index of ≤0.5 indicates synergism. In contrast, chlorhexidine and each individual oil had FICs which ranged 0.581-2.00, which indicated the combinations were additive but not synergistic. An antibacterial mouthwash contained EtOH 25.0, nonionic surfactant 2.0, benzoic acid 0.15, chlorhexidine digluconate 0.05, color 0.2, sweetener 0.02, thymol 0.6, eucalyptol 0.6, Me salicylate 0.6, menthol 0.6%, water to 1.00 L, and NaOH to pH 4.2.

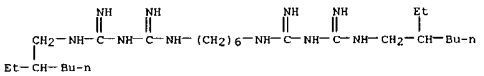
ACCESSION NUMBER: 1988:81855 CAPLUS
DOCUMENT NUMBER: 108:81855
TITLE: Bactericidal synergistic bis(biguanido)hexane-essential oil mixture combinations, and their use in oral compositions especially mouthwashes
INVENTOR(S): Pianotti, Roland S.
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 244363	A1	19871104	EP 1987-810268	19870428
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8702857	A	19871125	ZA 1987-2857	19870422
AU 8771878	A1	19871105	AU 1987-71878	19870423
AU 582047	B2	19890309		
FI 8701918	A	19871103	FI 1987-1918	19870429
DK 8702233	A	19871103	DK 1987-2233	19870501
JP 62289511	A2	19871216	JP 1987-106470	19870501
PRIORITY APPLN. INFO.:			US 1986-859113 A	19860502

IT **22573-93-9**, Alexidine
RL: BIOL (Biological study)
(bactericidal oral compns. containing essential oils and, synergistic)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 94 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



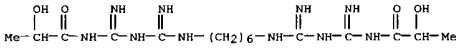
L4 ANSWER 95 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Polyclonal and monoclonal antibodies to the antibacterial agent chlorhexidine (1,1'-hexamethylene bis[5-(p-chlorophenyl)]biguanide, mol. wt = 505) were raised using a chlorine-generated N-chloro chlorhexidine-keyhole limpet hemocyanin (NCC-KLH) conjugate as the immunogen. Antibodies were detected by ELISA, using a semichlorhexidine derivative conjugated to human serum albumin (SC-HSA) as the antigen. Free chlorhexidine completely inhibited both polyclonal and monoclonal antibody binding to SC-HSA. Direct binding and inhibition ELISA studies revealed that the N-chlorination of chlorhexidine does not significantly alter its specificity as an immunogen or antigen and that chlorhexidine has 2 identical epitopes. Each epitope consists of the p-chlorophenyl biguanide structure of which the terminal p-chlorophenyl group appears to be immunodominant. Chlorhexidine is, therefore, a sym. divalent hapten and this implies that it may be capable of eliciting immediate hypersensitivity reactions by divalent interaction with antibodies induced by chlorine-generated N-chloro-chlorhexidine-protein immunogens.

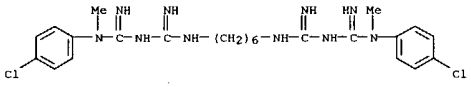
ACCESSION NUMBER: 1987:590399 CAPLUS
DOCUMENT NUMBER: 107:190399
TITLE: The specificity of murine polyclonal and monoclonal antibodies to the haptenic drug chlorhexidine induced by chlorine-generated chlorhexidine-protein conjugates
AUTHOR(S): Layton, G. T.; Stanworth, D. R.; Amos, H. E.
CORPORATE SOURCE: Dep. Immunol., Univ. Birmingham, Birmingham, UK
SOURCE: Clinical and Experimental Immunology (1987), 69(1), 157-65
CODEN: CEXIAL; ISSN: 0009-9104
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **111102-34-2**
RL: BIOL (Biological study)
(monoclonal and polyclonal antibodies binding to chlorhexidine inhibition by)

RN 111102-34-2 CAPLUS
CN Propanamide, N,N'-(1,3,12,14-tetraimino-2,4,11,13-tetraazatetradecane-1,14-diyl)bis[2-hydroxy- (9CI) (CA INDEX NAME)



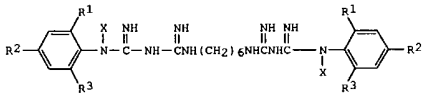
L4 ANSWER 96 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

L4 ANSWER 96 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I

AB Disinfectant and/or preserving solns. for contact lenses contain a biguanide of formula I [R2 = H or halogen, X = H or alkyl; R1, R3 = H, halogen, alkyl, alkoxy, NO2, SO2R4, carbonyl, or OH (R4 = NH2NHR5, NR5R6, OR5, or O-aryl; R5, R6 = alkyl or alkoxy); when R2 = halogen, both R1 and R3 = H and X = alkyl]. At 0.001 weight % concentration in aqueous solution, I.2HCl (X = R1 = R2 = H; R3 = Cl), when tested in vitro on agar plates, had average log bacterial count redns. of 6.1 for S. epidermis, 3.2 for C. albicans, and 0.7 for A. fumigatus.

ACCESSION NUMBER: 1987:583615 CAPLUS
DOCUMENT NUMBER: 107:183615
TITLE: Methods for disinfecting and preserving contact lenses
INVENTOR(S): Ognubiyi, Lai; Scott, Francis L.; Smith, Francis X.
PATENT ASSIGNEE(S): Bausch and Lomb Inc., USA
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 8700437	A1	19870129	WO 1985-US1393		19850722
W: JP					
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE					
EP 232250	A1	19870819	EP 1985-903776		19850722
EP 232250	B1	19900131			
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
JP 63500426	T2	19880218	JP 1985-503328		19850722
JP 06022542	B4	19940330			
AT 49887	E	19900215	AT 1985-903776		19850722
PRIORITY APPLN. INFO.:			EP 1985-903776	A	19850722
			WO 1985-US1393	A	19850722

IT **110817-49-7**
RL: BIOL (Biological study)
(disinfectant, for contact lenses)

RN 110817-49-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(4-chlorophenyl)-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 97 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

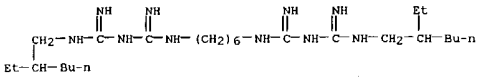
AB Chlorhexidine and a series of its analogs, in which the chlorophenyl terminal substituents were replaced with alkyl chains, were tested for their in vitro antimicrobial activity against gram-neg. and gram-pos. oral bacteria. Chlorhexidine showed substantial antimicrobial activity against both gram-neg. and gram-pos. oral bacteria. The alkyl agents were comparable with chlorhexidine in their activity against Bacteroides gingivalis and B. intermedius, black-pigmented gram-neg. obligate anaerobes associated with periodontal disease in adults. The alkyl agents alexidine, heptihexidine, hexocitidine, and hexhexidine, as well as chlorhexidine, were active against Actinobacillus actinomycetemcomitans, a gram-neg. organism associated with localized juvenile periodontitis. Hexidecidine and heptoctidine were more active, and hexhexidine was as active, as chlorhexidine against Fusobacterium nucleatum, also associated with periodontal disease. Seven of the agents were more active than chlorhexidine against Actinomyces species. All test agents were active against Streptococcus mutans, a gram-pos. coccus associated with dental caries. Hexidecidine had activity equal to that of chlorhexidine when evaluated against the entire battery of organisms. Anal. of structure-activity relationships revealed that alkyl chains could replace chlorophenyl groups with retention or improvement of antimicrobial activity. Agents with branched terminal groups were more active than agents of the same bridge length but with unbranched terminal groups. Of the alkyl agents evaluated in this study, hexidecidine, hexhexidine, and alexidine offer the most promise for use in control of oral diseases.

ACCESSION NUMBER: 1987:474114 CAPLUS
DOCUMENT NUMBER: 107:74114
TITLE: Structural determinants of activity of chlorhexidine and alkyl bisbiguanides against the human oral flora
AUTHOR(S): Baker, P. J.; Coburn, R. A.; Genco, R. J.; Evans, R. T.
CORPORATE SOURCE: Sch. Pharm., State Univ. New York, Buffalo, NY, 14214, USA
SOURCE: Journal of Dental Research (1987), 66(6), 1099-106
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English

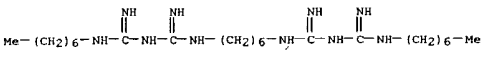
IT **22573-93-9**, Alexidine **68704-92-7**, Heptihexidine **109752-48-9**, Isononabutidine **109752-49-0**, Nonabutidine **109752-50-3**, Octihexidine **109752-51-4**, Heptoctidine **109752-52-5**, Hexidecidine **109752-53-6**, Hexoctidine **109752-54-7**, Hexhexidine
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antibacterial activity of, structure in relation to)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 97 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

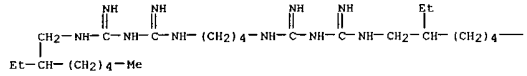


RN 68704-92-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino- (9CI) (CA INDEX NAME)



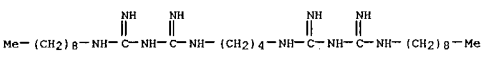
RN 109752-48-9 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, N,N''-bis(2-ethylheptyl)-3,10-diimino- (9CI) (CA INDEX NAME)

PAGE 1-A

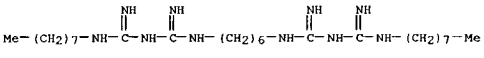


PAGE 1-B

RN 109752-49-0 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, 3,10-diimino-N,N''-dinonyl- (9CI) (CA INDEX NAME)

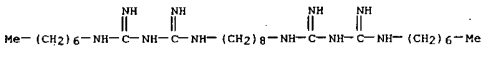


RN 109752-50-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl- (9CI) (CA INDEX NAME)

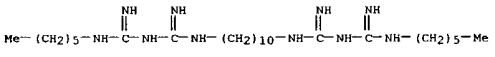


L4 ANSWER 97 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

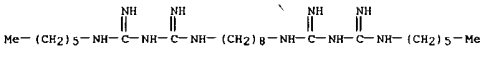
RN 109752-51-4 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-diheptyl-3,14-diimino- (9CI) (CA INDEX NAME)



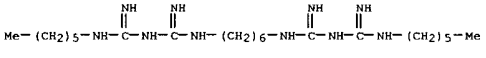
RN 109752-52-5 CAPLUS
CN 2,4,15,17-Tetraazaoctadecanediimidamide, N,N''-dihexyl-3,16-diimino- (9CI)
(CA INDEX NAME)



RN 109752-53-6 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-dihexyl-3,14-diimino- (9CI)
(CA INDEX NAME)



RN 109752-54-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 98 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

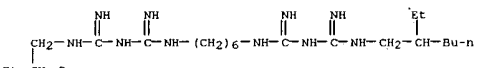
AB The change in the color of teeth caused by dentifrices containing chlorhexidine, alexidine and/or their salts is suppressed by the addition of H2O2. Thus, a mouthwash concentration is given containing chlorhexidine gluconate (20%) 10, H2O2 6.2, glycerol (86%) 10, nonionic surfactant 2.5, 1-methoxypropanol 3.5, flavor 2.7, EtOH (85%) 2.5, and H2O 40.1% by weight

ACCESSION NUMBER: 1986:24089 CAPLUS
DOCUMENT NUMBER: 104:24089
TITLE: Oral hygiene agent
INVENTOR(S): Roella, Gunnar
PATENT ASSIGNEE(S): Blendax-Werke R. Schneider G.m.b.H. und Co., Fed. Rep. Ger.
SOURCE: Ger. Offen., 11 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

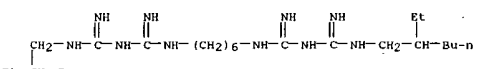
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3415147	A1	19851031	DE 1984-3415147	19840421
PRIORITY APPLN. INFO.:			DE 1984-3415147	19840421

IT **22573-93-9 55006-94-5**
RL: BIOL (Biological study)
(dentifrices containing hydrogen peroxide and)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



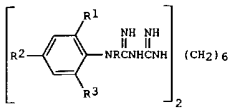
RN 55006-94-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrofluoride (9CI) (CA INDEX NAME)



●2 HF

L4 ANSWER 98 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 99 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

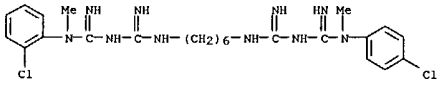
AB Biguanides I (R = H, Me, Et, etc.; R1 = H, Cl, OH, OMe, NO2, etc.; R2 = H,
halo, etc.; R3 = H, Cl, OH, etc.) are contact lens disinfectants, especially
suitable for soft lenses. I are not bound by the lens and are not toxic.
Thus, N,N''-bis(o-chlorophenyl)-3,12-diimino-2,4,11,13-
tetraazatetradecanediimidamide-2HCl [99452-55-8] (0.001%) inhibited the
growth of Candida albicans, and Aspergillus fumigatus, in vitro. I was
prepared by the reaction of H2N(CH2)6NH2.2HCl [6055-52-3] with NaN(CN)2
[1934-75-4] to give (CH2)6[NHC(:NH)NHCN]2 [15894-70-9], which was further
reacted with the aniline derivative

ACCESSION NUMBER: 1986:10671 CAPLUS
DOCUMENT NUMBER: 104:10671
TITLE: Disinfecting and preserving agents for contact lenses
INVENTOR(S): Ogunbiyi, Lai; Scott, Francis L.; Smith, Francis X.
PATENT ASSIGNEE(S): Bausch and Lomb Inc., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4537746	A	19850827	US 1983-566833	19831229
CA 1243260	A1	19881018	CA 1985-487275	19850723
PRIORITY APPLN. INFO.:			US 1983-566833	19831229

IT **99452-56-9P**
RL: PREP (Preparation)
(preparation of, as contact lens disinfectant)
RN 99452-56-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N-(2-chlorophenyl)-N''-(4-chlorophenyl)-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

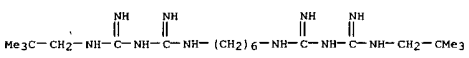
L4 ANSWER 99 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

L4 ANSWER 100 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Mass spectrometry-mass spectrometry (MS-MS) techniques were used in qual. structural studies and have shown significant advantages over current methods in the areas of impurity identification, background reduction using
soft ionization techniques, and extraction of fragmentation information from
complex mixts. Direct MS-MS and gas chromatog.-MS-MS were also employed in determination of known compds. in complex mixts. The enhanced selectivity and
speed of method development are particularly impressive features. The work has been carried out using a Finnigan MAT TSQ triple quadrupole and a
VG Anal. 7070Equiv hybrid instrument.

ACCESSION NUMBER: 1985:605098 CAPLUS
DOCUMENT NUMBER: 103:205098
TITLE: Some results from an investigation into the analytical
potential of mass spectrometry-mass spectrometry techniques, with particular reference to industrial applications
AUTHOR(S): Catlow, D. A.; Johnson, M.; Monaghan, J. J.; Porter, C.; Scrivens, J. H.
CORPORATE SOURCE: Pharm. Div., Imp. Chem. Ind. PLC, Macclesfield/Cheshire, SK10 2NA, UK
SOURCE: Journal of Chromatography (1985), 328, 167-77
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **99216-83-8**
RL: PRP (Properties); ANST (Analytical study)
(tandem mass spectroscopy of, fragmentation schemes in)
RN 99216-83-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 101 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The kinetics were studied of the aminolysis of 4-O2NC6H4OAc (I) and 3,4-(O2N)(RO)C6H3CO2- [R = Ac (II), Me(CH2)4CO (III)] by a number of biguanide biocides. No significant difference in rate constant was observed on
aminolysis of I with [H2N(CH2)6NHC(:NH)]2NH.3HCl (IV), H2N[[(CH2)6NH[C(:NH)NH]2]2(CH2)6NH2.4HCl (V) and cyclic [(CH2)6NH[C(:NH)NH]2]nNH2.(n+1)HCl (n = .apprx.5) (VI), whereas with II and III the rate increased in the order IV < V < VI. This is the same order as their antimicrobial activity. Thus, the electrostatic interaction between pos. charged biguanide units and neg. charged species present in microbial cytoplasmic membranes is significant in the biocidal action of biguanides.

ACCESSION NUMBER: 1985:577748 CAPLUS
DOCUMENT NUMBER: 103:177748
TITLE: Interaction of membrane-active biguanides with negatively charged species. A model for their interaction with target sites in microbial membranes
AUTHOR(S): Ikeda, Tomiki; Tazuke, Shigeo; Bamford, Clement H.
CORPORATE SOURCE: Res. Lab. Resour. Util., Tokyo Inst. Technol., Yokohama, 227, Japan
SOURCE: Journal of Chemical Research, Synopses (1985), (6), 180-1
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 103:177748
IT **1715-30-6 98899-23-1**
RL: PRP (Properties)
(aminolysis by, of esters, kinetics of)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HCl

RN 98899-23-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(6-aminohexyl)-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)

●4 HCl

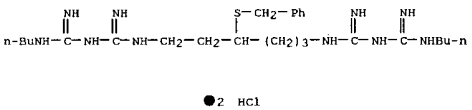
L4 ANSWER 101 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 102 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB About 30 title compds.
R1R2NC(:NR6)NHC(:NH)NHCH2Q(CH2)3NHC(:NH)NHC(:NR7)NR
3R4 or their tautomers [R1-R4 = H, alkyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, (un)substituted Ph or phenylalkyl; R1R2N or R3R4N = 1-azetidinyl, 1-pyrrolidinyl, piperidino, etc.; R6, R7 = H, alkyl; Q = substituted ethylene or ethylidene group CH2CHYR5, CH(CH2YR5) where Y = O,
S and R5 = alkyl, cycloalkyl, cycloalkylalkyl, (un)substituted Ph or phenylalkyl], bactericides, fungicides, and contraceptives (no data), were
prepared Thus, treating 2-hexenedinitrile with PhCH2SH in the presence of
NaH, followed by reduction with BH3·Me2S gave 6-(benzylthio)hexane-1,6-diamine dihydrochloride. The last was treated with 1-butyl-3-cyanoguanidine in sulfolane to give 3-(benzylthio)hexane-1,6-bis(5-butylbiguanide) dihydrochloride.
ACCESSION NUMBER: 1985:504579 CAPLUS
DOCUMENT NUMBER: 103:104579
TITLE: Bisbiguanide compounds
INVENTOR(S): Eakin, Murdoch Allan; Edwards, Philip Neil; Large, Michael Stewart
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 125092	A1	19841114	EP 1984-302928	19840501
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4670592	A	19870602	US 1984-607702	19840507
JP 59231062	A2	19841225	JP 1984-91181	19840509
PRIORITY APPLN. INFO.:			GB 1983-12663	A 19830509

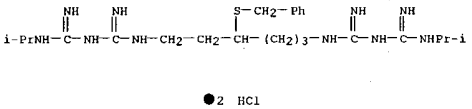
IT **97943-60-7P 97943-61-8P 97943-63-0P**
97943-64-1P 97943-65-2P 97943-67-4P
97943-68-5P 97943-69-6P 97943-71-0P
97943-73-2P 97943-74-3P 97943-75-4P
97943-76-5P 97943-77-6P 97943-78-7P
97943-79-8P 97943-80-1P 97943-81-2P
97943-82-3P 97943-84-5P 97943-85-6P
97943-86-7P 97943-96-9P 97943-97-0P
97943-99-2P 97944-00-8P 97944-01-9P
97944-03-1P 97944-04-2P 97944-05-3P
97944-07-5P 97944-08-6P 97944-09-7P
97944-11-1P 97944-12-2P 97944-13-3P
97944-14-4P 97944-15-5P 97944-16-6P
97944-17-7P 97944-18-8P 97944-19-9P
97944-20-2P 97944-22-4P 97944-23-5P
97944-24-6P 97960-09-3P 97960-10-6P
97960-11-7P 98966-55-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and pharmacol. activity of)

L4 ANSWER 102 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 97943-60-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-7-[(phenylmethyl)thio]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

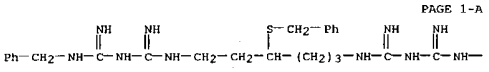
RN 97943-61-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-7-[(phenylmethyl)thio]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 97943-63-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(phenylmethyl)-7-[(phenylmethyl)thio]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

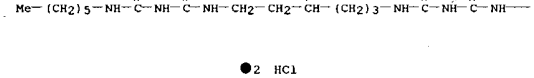
PAGE 1-B

—CH2—Ph

RN 97943-64-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-7-[(phenylmethyl)thio]-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 102 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

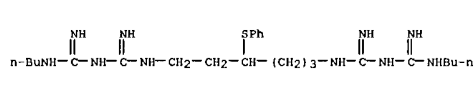


●2 HCl

PAGE 1-B

—(CH2)5—Me

RN 97943-65-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-7-(phenylthio)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 97943-67-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(phenylmethyl)-7-(phenylthio)-, dihydrochloride (9CI) (CA INDEX NAME)

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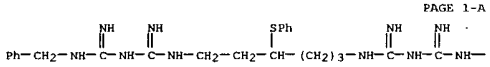

●2 HCl

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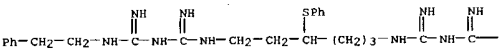
—CH2—Ph

RN 97943-68-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(2-

phenylethyl)-7-(phenylthio)-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

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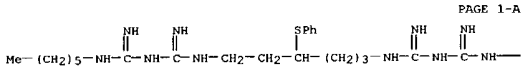
RN 97943-69-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-7-(phenylthio)-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

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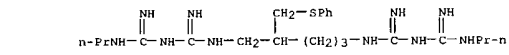
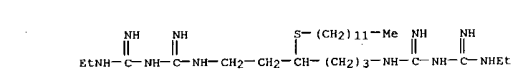
RN 97943-71-0 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(2-phenylethyl)-6-[(phenylmethoxy)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

RN 97943-75-4 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-6-[(phenylthio)methyl]-N,N''-dipropyl-, dihydrochloride (9CI) (CA INDEX NAME)



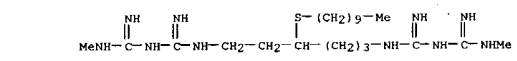
●2 HCl

RN 97943-76-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecylthio)-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



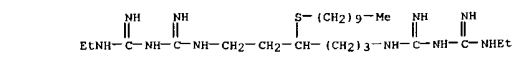
●2 HCl

RN 97943-77-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



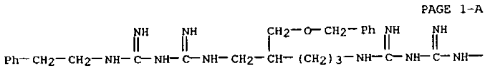
●2 HCl

RN 97943-78-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

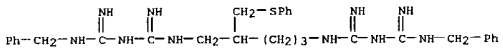
PAGE 1-A



●2 HCl

PAGE 1-B

RN 97943-73-2 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(phenylmethyl)-6-[(phenylthio)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 97943-74-3 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(2-phenylethyl)-6-[(phenylthio)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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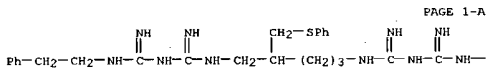

●2 HCl

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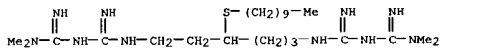
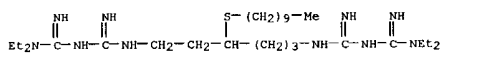
RN 97943-79-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



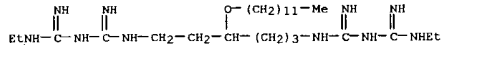
●2 HCl

RN 97943-80-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-N,N,N'',N''-tetraethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



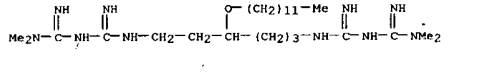
●2 HCl

RN 97943-81-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecyloxy)-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

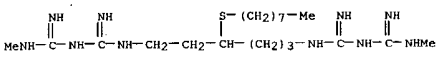
RN 97943-82-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecyloxy)-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

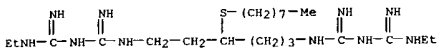
RN 97943-84-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-7-

(octylthio)-, dihydrochloride (9CI) (CA INDEX NAME)



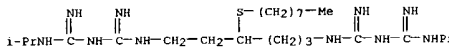
●2 HCl

RN 97943-85-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diethyl-3,12-diimino-7-(octylthio)-, dihydrochloride (9CI) (CA INDEX NAME)



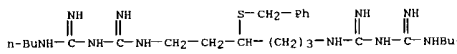
●2 HCl

RN 97943-86-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-7-(octylthio)-, dihydrochloride (9CI) (CA INDEX NAME)

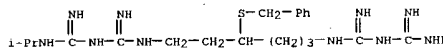


●2 HCl

RN 97943-96-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-7-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



RN 97943-97-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-7-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



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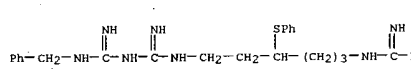

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—CH_2—Ph

RN 97944-04-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(2-phenylethyl)-7-(phenylthio)- (9CI) (CA INDEX NAME)

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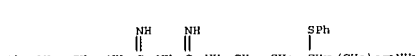

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—NH—CH_2—CH_2—Ph

RN 97944-05-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-7-(phenylthio)- (9CI) (CA INDEX NAME)

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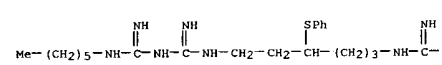

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—$(CH_2)_5$—Me

RN 97944-07-5 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-6-[(phenylmethoxy)methyl]-N,N''-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 97943-99-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(phenylmethyl)-7-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)

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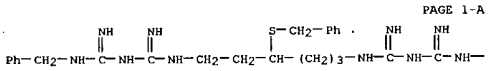

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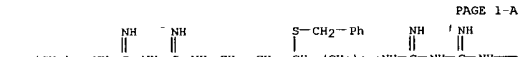
—CH_2—Ph

RN 97944-00-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-7-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)

PAGE 1-A



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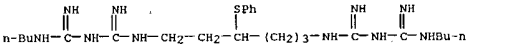
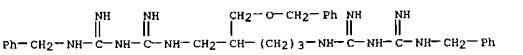
—$(CH_2)_5$—Me

RN 97944-01-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-7-(phenylthio)- (9CI) (CA INDEX NAME)



RN 97944-03-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(phenylmethyl)-7-(phenylthio)- (9CI) (CA INDEX NAME)



RN 97944-08-6 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(2-phenylethyl)-6-[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)

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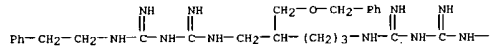

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—CH_2—CH_2—Ph

RN 97944-09-7 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, N,N''-dihexyl-3,11-diimino-6-[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)

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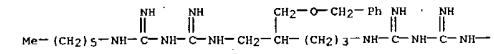

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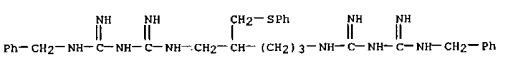
—$(CH_2)_5$—Me

RN 97944-11-1 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(phenylmethyl)-6-[(phenylthio)methyl]- (9CI) (CA INDEX NAME)



RN 97944-12-2 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-N,N''-bis(2-

phenylethyl)-6-[(phenylthio)methyl]- (9CI) (CA INDEX NAME)

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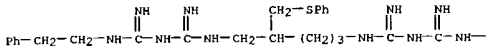

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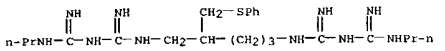
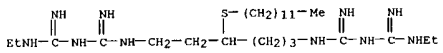
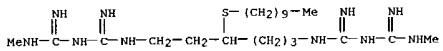
RN 97944-13-3 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-6-[(phenylthio)methyl]-N,N''-dipropyl- (9CI) (CA INDEX NAME)



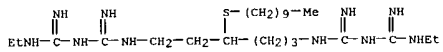
RN 97944-14-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecylthio)-N,N''-diethyl-3,12-diimino- (9CI) (CA INDEX NAME)

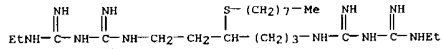


RN 97944-15-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N''-dimethyl- (9CI) (CA INDEX NAME)

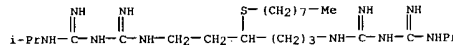


RN 97944-16-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-N,N''-diethyl-3,12-diimino- (9CI) (CA INDEX NAME)

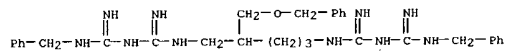




RN 97944-24-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-7-(octylthio)- (9CI) (CA INDEX NAME)



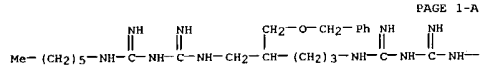
RN 97960-09-3 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, 3,11-diimino-6-[(phenylmethoxy)methyl]-N,N''-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 97960-10-6 CAPLUS
CN 2,4,10,12-Tetraazatridecanediimidamide, N,N''-dihexyl-3,11-diimino-6-[(phenylmethoxy)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

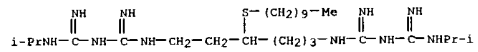


●2 HCl

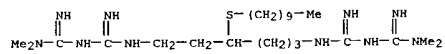
PAGE 1-B

RN 97960-11-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecyloxy)-3,12-diimino-N,N,N'',N''-tetramethyl- (9CI) (CA INDEX NAME)

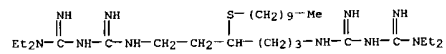
RN 97944-17-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N''-bis(1-methylethyl)- (9CI) (CA INDEX NAME)



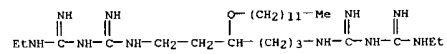
RN 97944-18-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N,N'',N''-tetramethyl- (9CI) (CA INDEX NAME)



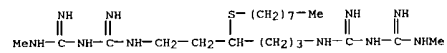
RN 97944-19-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-N,N,N'',N''-tetraethyl-3,12-diimino- (9CI) (CA INDEX NAME)



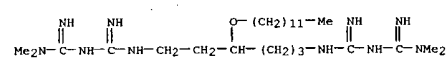
RN 97944-20-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(dodecyloxy)-N,N''-diethyl-3,12-diimino- (9CI) (CA INDEX NAME)



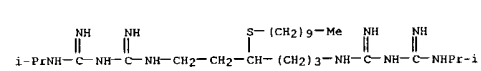
RN 97944-22-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-7-(octylthio)- (9CI) (CA INDEX NAME)



RN 97944-23-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diethyl-3,12-diimino-7-(octylthio)- (9CI) (CA INDEX NAME)



RN 98966-55-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 7-(decylthio)-3,12-diimino-N,N''-bis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

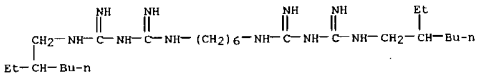
L4 ANSWER 103 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB R1R2NC(:NH)N:C(NH2)NHANHC(NH2):NC(:NH)NR3R4, where R1 and R3 are the same or different and are alkyl-, alkoxy-, nitro-, or halogen-substituted phenyl, R2 and R1 = H or C1-6 alkyl, and A = C2-12 alkylene, (CH2)mX(CH2)m where m and n = 2-6 and X = O or S, etc., or a salt thereof was a spermicidal contraceptive. Chlorhexidine [55-56-1] and salts thereof were preferred compds. E.g., rabbit does treated at the cervix with chlorhexidine diacetate [56-95-1] (1% in water), mated 2 h later, and sacrificed 15 days later showed a 98% egg loss, compared with a 24% egg loss in does treated with water. Only 1 of 5 does became pregnant compared with 5 of 5 controls. The spermicidal activity of chlorhexidine was demonstrated with human sperm.

ACCESSION NUMBER: 1985:432776 CAPLUS
DOCUMENT NUMBER: 103:32776
TITLE: Contraceptive composition containing bisbiguanides
INVENTOR(S): Chantler, Eric Nelson; Hutchinson, Francis Gowland; Sharman, Deborah Ann
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 138304	A2	19850424	EP 1984-304945	19840719
EP 138304	A3	19860219		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DK 8403707	A	19850415	DK 1984-3707	19840730
FI 8403017	A	19850415	FI 1984-3017	19840730
NO 8403060	A	19850415	NO 1984-3060	19840730
AU 8431367	A1	19850418	AU 1984-31367	19840801
AU 582539	B2	19890406		
US 4602042	A	19860722	US 1984-638641	19840807
CA 1254516	A1	19890523	CA 1984-465014	19841010
JP 60105615	A2	19850611	JP 1984-214444	19841015
PRIORITY APPLN. INFO.:			GB 1983-27561 A	19831014

IT **22573-93-9**
RL: BIOL (Biological study)
(spermicidal contraceptive, in humans and laboratory animals)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Antibacterial bis(biguanides)

RR1NC(:NR2)NHC(:NR3)NR4XNR5C(:NR3)NHC(:NR6)N R7R8 I [R, R1, R3-5, R7, R8 = H, (un)substituted alkyl, Ph, naphthyl; NRR1, NR7R8 = (un)substituted N-containing heterocycles; R3, R6 = H, alkyl; X = (un)substituted C2-16 alkylene, alkylene(cycloalkylene)alkylene] were prepared Thus, H2N(CH2)12NH2 reacted with 2-ClC6H4CHO in EtOH-HOAc under H, using PtO2 catalyst, to give R9NH(CH2)12NHR9 (R9 = CH2C6H4Cl-2), which reacted with H2NC(:NH)NHCN to give H2NC(:NH)NH(C:NH)NR9(CH2)12NHR9C(:NH)NH C(:NH)NH2. I were active against Candida albicans and 8 gram pos. bacteria at 1-12 μg/mL, and bactericidal against 14 gram neg. bacteria at 20-250 μg/mL.

ACCESSION NUMBER: 1985:220469 CAPLUS
DOCUMENT NUMBER: 102:220469
TITLE: Bis(1-substituted biguanide) derivatives
INVENTOR(S): Edwards, Philip Neil; Large, Michael Stewart
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 126567	A1	19841128	EP 1984-302927	19840501
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4567174	A	19860128	US 1984-607703	19840507
JP 59206347	A2	19841122	JP 1984-91184	19840509
PRIORITY APPLN. INFO.:			GB 1983-12664 A	19830509

IT **95669-60-6P 95669-61-7P 95669-62-8P**
95669-63-9P 95669-64-0P 95669-65-1P
95669-67-3P 95669-71-9P 95669-72-0P
95669-74-2P 95669-76-4P 95669-77-5P
95669-79-7P 95669-83-3P 95669-85-5P
95669-86-6P 95669-87-7P 95669-88-8P
95669-89-9P 95669-90-2P 95669-92-4P
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95670-01-2P 95670-02-3P 95670-04-5P
95670-07-8P 95670-10-3P 95670-11-4P
95670-12-5P 95670-13-6P 95670-14-7P
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95670-19-2P 95670-21-6P 95670-22-7P
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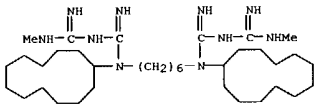
95670-26-1P 95670-27-2P 95670-29-4P
95670-31-8P 95670-32-9P 95670-33-0P
95670-34-1P 95670-37-4P 95670-38-5P
95670-39-6P 95670-40-9P 95670-42-1P
95670-43-2P 95670-44-3P 95670-46-5P
95670-47-6P 95670-48-7P 95670-50-1P
95670-51-2P 95670-52-3P 95670-69-2P
95670-70-5P 95670-71-6P 95670-72-7P
95670-73-8P 95693-54-2P 95693-55-3P
95693-56-4P

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

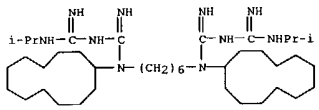
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as bactericide)

RN 95669-60-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-dicyclododecyl-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

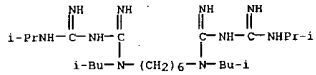
RN 95669-61-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-dicyclododecyl-3,12-diimino-N,N''-bis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

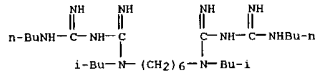
RN 95669-62-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-4,11-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



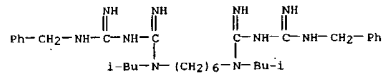
●2 HCl

RN 95669-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-4,11-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



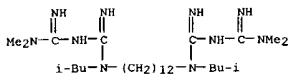
●2 HCl

RN 95669-64-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-4,11-bis(2-methylpropyl)-N,N''-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



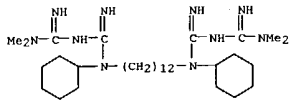
●2 HCl

RN 95669-65-1 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N,N'',N''-tetramethyl-4,17-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 95669-67-3 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 4,17-dicyclohexyl-3,18-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)

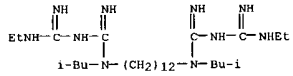


●2 HCl

RN 95669-71-9 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-4,17-bis(2-methylpropyl)-, dimethanesulfonate (9CI) (CA INDEX NAME)

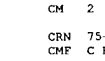
CM 1

CRN 95669-70-8
CMF C28 H60 N10



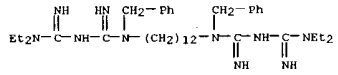
CM 2

CRN 75-75-2
CMF C H4 O3 S



CM 1

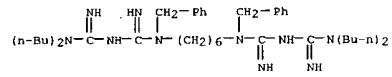
CRN 95669-75-3
CMF C38 H64 N10



CM 2

CRN 75-75-2
CMF C H4 O3 S

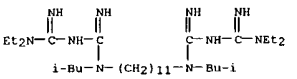
RN 95669-77-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N,N'',N''-tetrabutyl-3,12-diimino-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 95669-79-7 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, 4-dodecyl-N,N''-diethyl-3,9-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

RN 95669-72-0 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N,N'',N''-tetraethyl-3,17-diimino-4,16-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)

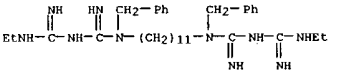


●2 HCl

RN 95669-74-2 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N''-diethyl-3,17-diimino-4,16-bis(phenylmethyl)-, dimethanesulfonate (9CI) (CA INDEX NAME)

CM 1

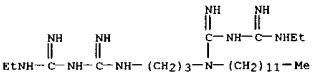
CRN 95669-73-1
CMF C33 H54 N10



CM 2

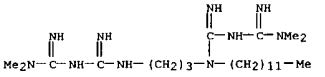
CRN 75-75-2
CMF C H4 O3 S

RN 95669-76-4 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N,N'',N''-tetraethyl-3,18-diimino-4,17-bis(phenylmethyl)-, dimethanesulfonate (9CI) (CA INDEX NAME)



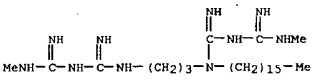
●2 HCl

RN 95669-83-3 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, 4-dodecyl-3,9-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



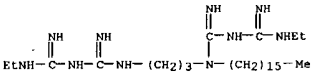
●2 HCl

RN 95669-85-5 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, 4-hexadecyl-3,9-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



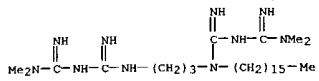
●2 HCl

RN 95669-86-6 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-diethyl-4-hexadecyl-3,9-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



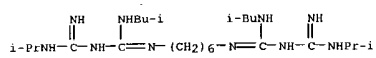
●2 HCl

RN 95669-87-7 CAPLUS
CN 2,4,8,10-Tetraazaundecanediimidamide, 4-hexadecyl-3,9-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



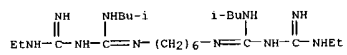
●2 HCl

RN 95669-88-8 CAPLUS
CN 2,4,11,13-Tetraazatetradeca-2,11-dienediimidamide, N,N''-bis(1-methylethyl)-3,12-bis[(2-methylpropyl)amino]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

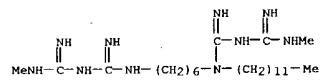
RN 95669-89-9 CAPLUS
CN 2,4,11,13-Tetraazatetradeca-2,11-dienediimidamide, N,N''-diethyl-3,12-bis[(2-methylpropyl)amino]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

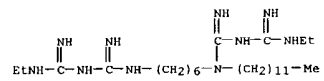
RN 95669-90-2 CAPLUS
CN 2,4,11,13-Tetraazatetradeca-2,11-dienediimidamide, N,N''-bis(2-methylpropyl)-3,12-bis[(2-methylpropyl)amino]-, dihydrochloride (9CI) (CA INDEX NAME)

dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



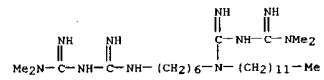
●2 HCl

RN 95669-97-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



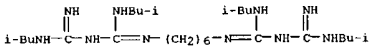
●2 HCl

RN 95669-98-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



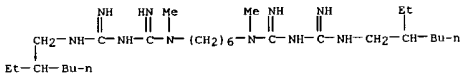
●2 HCl

RN 95670-00-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-4,11-dimethyl-N,N',N'',N'''-tetrakis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



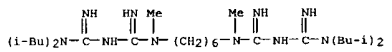
●2 HCl

RN 95669-92-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-4,11-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



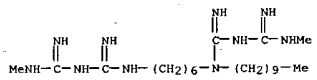
●2 HCl

RN 95669-93-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-4,11-dimethyl-N,N,N'',N''-tetrakis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



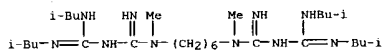
●2 HCl

RN 95669-94-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-decyl-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



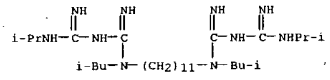
●2 HCl

RN 95669-96-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-3,12-diimino-N,N''-



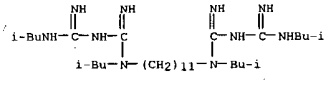
●2 HCl

RN 95670-01-2 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-bis(1-methylethyl)-4,16-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



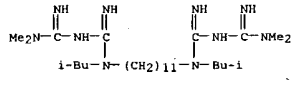
●2 HCl

RN 95670-02-3 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N'',4,16-tetrakis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



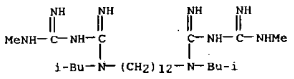
●2 HCl

RN 95670-04-5 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N,N'',N''-tetramethyl-4,16-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



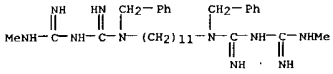
●2 HCl

RN 95670-07-8 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-dimethyl-4,17-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



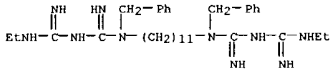
●2 HCl

RN 95670-10-3 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-dimethyl-4,16-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



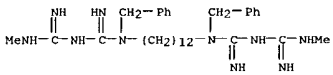
●2 HCl

RN 95670-11-4 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N''-diethyl-3,17-diimino-4,16-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



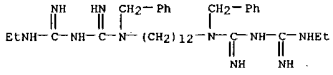
●2 HCl

RN 95670-12-5 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-bis(1-methylethyl)-4,16-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



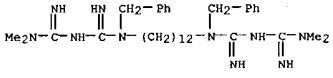
●2 HCl

RN 95670-17-0 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-4,17-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



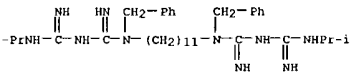
●2 HCl

RN 95670-18-1 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N,N'',N''-tetramethyl-4,17-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



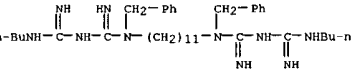
●2 HCl

RN 95670-19-2 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis(1-methylethyl)-4,17-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



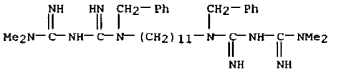
●2 HCl

RN 95670-13-6 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N''-dibutyl-3,17-diimino-4,16-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



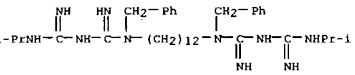
●2 HCl

RN 95670-14-7 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N,N'',N''-tetramethyl-4,16-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



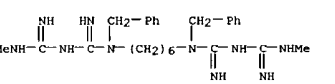
●2 HCl

RN 95670-16-9 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-dimethyl-4,17-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



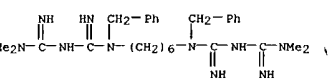
●2 HCl

RN 95670-21-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



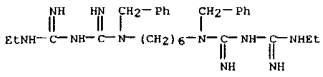
●2 HCl

RN 95670-22-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N,N'',N''-tetramethyl-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



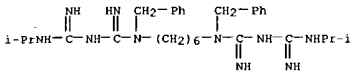
●2 HCl

RN 95670-23-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diethyl-3,12-diimino-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



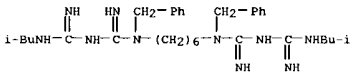
●2 HCl

RN 95670-24-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



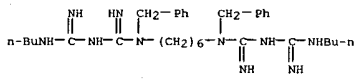
●2 HCl

RN 95670-25-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(2-methylpropyl)-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



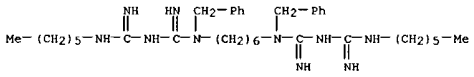
●2 HCl

RN 95670-26-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-3,12-diimino-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



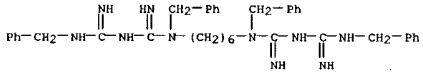
●2 HCl

RN 95670-27-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-4,11-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



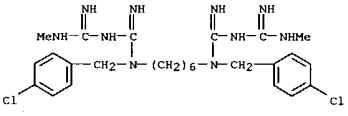
●2 HCl

RN 95670-29-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N'',4,11-tetrakis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



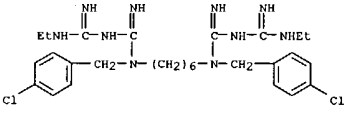
●2 HCl

RN 95670-31-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(4-chlorophenyl)methyl]-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



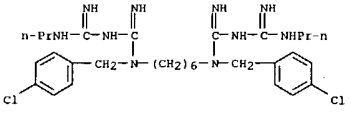
●2 HCl

RN 95670-32-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(4-chlorophenyl)methyl]-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



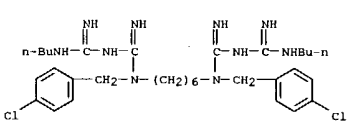
●2 HCl

RN 95670-33-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(4-chlorophenyl)methyl]-3,12-diimino-N,N''-dipropyl-, dihydrochloride (9CI) (CA INDEX NAME)



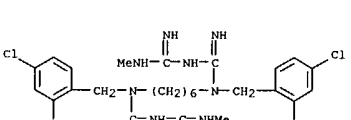
●2 HCl

RN 95670-34-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-4,11-bis[(4-chlorophenyl)methyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



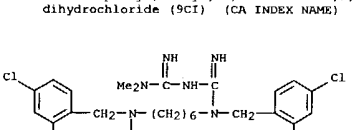
●2 HCl

RN 95670-37-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(2,4-dichlorophenyl)methyl]-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI)
(CA INDEX NAME)



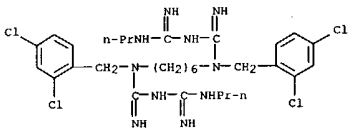
●2 HCl

RN 95670-38-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(2,4-dichlorophenyl)methyl]-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



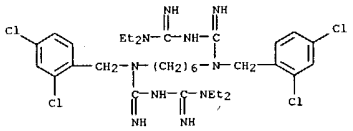
●2 HCl

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 95670-39-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(2,4-dichlorophenyl)methyl]-3,12-diimino-N,N''-dipropyl-, dihydrochloride (9CI)
(CA INDEX NAME)



●2 HCl

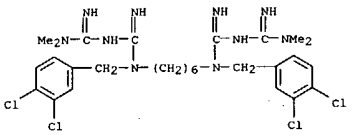
RN 95670-40-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(2,4-dichlorophenyl)methyl]-N,N,N'',N''-tetraethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

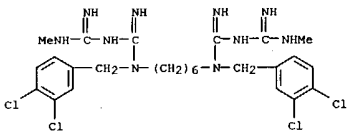
RN 95670-42-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(3,4-dichlorophenyl)methyl]-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



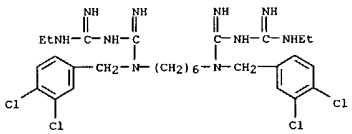
●2 HCl

RN 95670-43-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(3,4-dichlorophenyl)methyl]-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI)
(CA INDEX NAME)



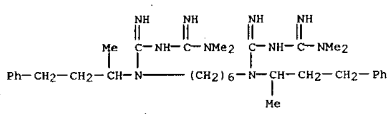
●2 HCl

RN 95670-44-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis[(3,4-dichlorophenyl)methyl]-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



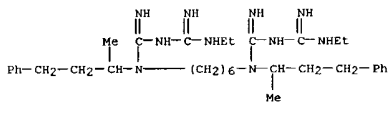
●2 HCl

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 95670-46-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N,N'',N''-tetramethyl-4,11-bis(1-methyl-3-phenylpropyl)-, dihydrochloride (9CI) (CA
INDEX NAME)



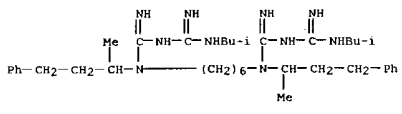
●2 HCl

RN 95670-47-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diethyl-3,12-diimino-4,11-bis(1-methyl-3-phenylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

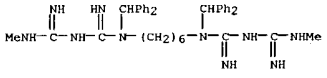
RN 95670-48-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-4,11-bis(1-methyl-3-phenylpropyl)-N,N''-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX
NAME)



●2 HCl

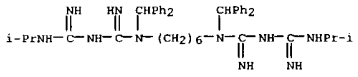
L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 95670-50-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis(diphenylmethyl)-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



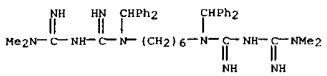
●2 HCl

RN 95670-51-2 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis(diphenylmethyl)-3,12-diimino-N,N''-bis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

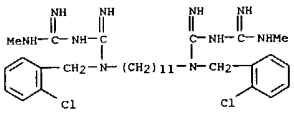
RN 95670-52-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 4,11-bis(diphenylmethyl)-3,12-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

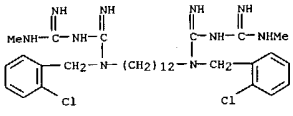
RN 95670-69-2 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 4,16-bis[(2-chlorophenyl)methyl]-3,17-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



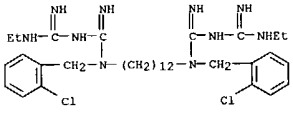
●2 HCl

RN 95670-70-5 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 4,17-bis[(2-chlorophenyl)methyl]-3,18-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

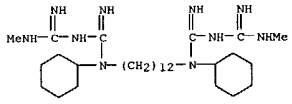
RN 95670-71-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 4,17-bis[(2-chlorophenyl)methyl]-3,18-diimino-N,N''-diethyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

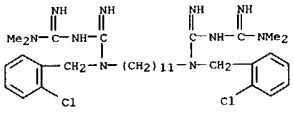
RN 95670-72-7 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 4,17-bis[(2-chlorophenyl)methyl]-3,18-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



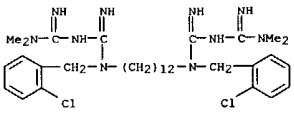
●2 HCl

RN 95693-56-4 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 4,16-bis[(2-chlorophenyl)methyl]-3,17-diimino-N,N,N'',N''-tetramethyl-, dihydrochloride (9CI) (CA INDEX NAME)



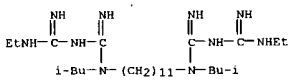
●2 HCl

L4 ANSWER 104 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



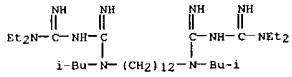
●2 HCl

RN 95670-73-8 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N''-diethyl-3,17-diimino-4,16-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 95693-54-2 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N,N'',N''-tetraethyl-3,18-diimino-4,17-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 95693-55-3 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 4,17-dicyclohexyl-3,18-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

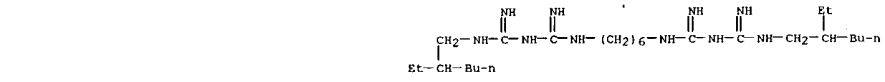
L4 ANSWER 105 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The maximum uptake of alexidine **[22573-93-9]**, cetylpyridinium chloride [123-03-5], chlorhexidine gluconate [18472-51-0], and chlorhexidine acetate [56-95-1] by poly(methyl methacrylate) [9011-14-7] as a model for hydroxylapatite of teeth was measured, and the pattern of mol. attachment to the recipient surface was determined by construction of adsorption isotherms. The adsorption of acetylpyridinium chloride was significantly greater than that of the other antiseptics and adsorption of alexidine was significantly less. All 4 antiseptics showed a Langmuir type adsorption isotherm consistent with the formation of a monolayer of mols. on the recipient surface. For chlorhexidine, preliminary studies demonstrated that the pattern of adsorption was not altered by saliva pretreatment of surfaces. No evidence of mol. multilayering was found even at higher concns. of the antiseptics; however, the maximum uptake was significantly increased when no posttreatment washings were carried out. This increased uptake would be unlikely to play an important role in antiplaque activity because of relative instability. Adsorption is completely, or almost completely, prevented at low pH (<3).

ACCESSION NUMBER: 1985:172419 CAPLUS
DOCUMENT NUMBER: 102:172419
TITLE: The pattern of adsorption of cationic antiseptics to poly(methyl methacrylate)
AUTHOR(S): Moran, J.; Addy, M.
CORPORATE SOURCE: Dent. Sch., Welsh Natl. Sch. Med., Cardiff, CF4 4XY, UK
SOURCE: Journal of Oral Rehabilitation (1985), 12(1), 81-90
CODEN: JORHBY; ISSN: 0305-182X
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **22573-93-9**
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(adsorption of, to poly(Me methacrylate) tooth model, plaque inhibition in relation to)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 106 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Urinary catheters, releasing antibiotic biguanides slowly when used clin. are prepared using organic polymer elastomers containing biguanides. For example, 1,6-bis(4-chlorophenylbiguanido)hexane-HCl [3697-42-5] 30, Na alkyl sulfonate 3, and H2O 100 parts were mixed. Then, 4 parts of this was mixed with 100 parts of a latex solution comprising a natural rubber latex 100, Zn dimethyldithiocarbamate 0.3, S 1.5, Zn oxide 3, and stearic acid 1.2 parts. This mixture was molded into a catheter shape. Antimicrobial activity of this catheter was demonstrated both in vitro and in vivo.

ACCESSION NUMBER: 1985:154844 CAPLUS
DOCUMENT NUMBER: 102:154844
TITLE: Antibacterial urinary catheters
PATENT ASSIGNEE(S): Unitika Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

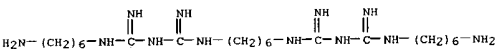
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59228856	A2	19841222	JP 1983-104572	19830610
JP 02061261	B4	19901219		
PRIORITY APPLN. INFO.:			JP 1983-104572	19830610

IT **95759-24-3**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericide, urinary catheters containing)

RN 95759-24-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(6-aminohexyl)-3,12-diimino-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 95759-23-2
CMF C22 H50 N12



CM 2

CRN 64-19-7
CMF C2 H4 O2

L4 ANSWER 106 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 107 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Bactericidal and fungical bisbiguanides RNR1C(:NR2)NHC(:NH)NHXNHCC:NH)NH(: NR3)NR4R5 [I, R,R1,R4,R5 = H, alkyl, alkylene; NRR1,NR4R5 = (un)substituted heterocyclic; R2,R3 = H, alkyl; X = (alkyl substituted) CH2)7-20, alkylene(cycloalkylene)alkylene] were prepared Thus, H2N(CH2)12NH2 reacted with NaN(CN)2 to give NCNHC(:NH)(CH2)12NHC(:NH)NCN, which were treated with Me2CHNH2 to form Me2CHNHC(:NH)NHC(:NH)NH(CH2)12NHC (:NH)NHC(:NH)NHCHMe2. I (initial R's, X) were bactericidal against 8 gram pos. bacteria and fungicidal against Candida albicans at 1-12 μg/mL and bactericidal against 14 gram neg. bacteria at 20-250 μg/mL.

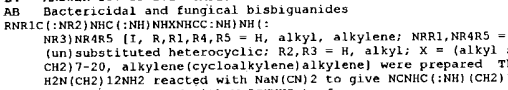
ACCESSION NUMBER: 1985:131551 CAPLUS
DOCUMENT NUMBER: 102:131551
TITLE: Bisbiguanide derivatives
INVENTOR(S): Gunn, Donald Murray; Pemberton, Dennis
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 126558	A1	19841128	EP 1984-302817	19840426
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 59210061	A2	19841128	JP 1984-91179	19840509
PRIORITY APPLN. INFO.:			GB 1983-12661 A	19830509

IT **95476-49-6P 95476-50-9P 95476-51-0P**
95476-52-1P 95476-53-2P 95476-54-3P
95476-55-4P 95476-56-5P 95476-57-6P
95476-58-7P 95476-59-8P 95476-60-1P
95476-61-2P 95476-62-3P 95476-64-5P
95476-65-6P 95476-70-3P 95476-71-4P
95476-72-5P 95476-73-6P 95476-77-0P
95476-81-6P 95476-82-7P 95476-84-9P
95476-88-3P 95476-89-4P 95476-90-7P
95476-91-8P 95476-92-9P 95476-93-0P
95476-94-1P 95476-95-2P 95476-96-3P
95476-97-4P 95477-04-6P 95477-05-7P
95509-75-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as bactericide)

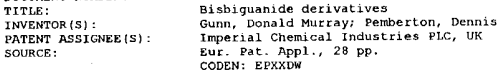
RN 95476-49-6 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,17-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 107 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



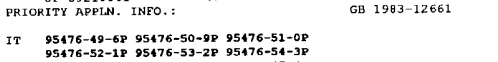
●2 HCl

RN 95476-50-9 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, 3,14-diimino-N,N''-dipentyl-, dihydrochloride (9CI) (CA INDEX NAME)



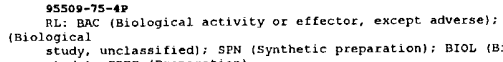
●2 HCl

RN 95476-51-0 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,14-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



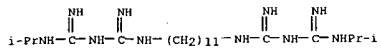
●2 HCl

RN 95476-52-1 CAPLUS
CN 2,4,15,17-Tetraazaoctadecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,16-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



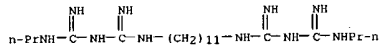
●2 HCl

RN 95476-53-2 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-bis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



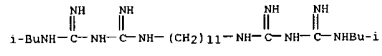
●2 HCl

RN 95476-54-3 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-dipropyl-, dihydrochloride (9CI) (CA INDEX NAME)



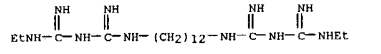
●2 HCl

RN 95476-55-4 CAPLUS
CN 2,4,16,18-Tetraazanonadecanediimidamide, 3,17-diimino-N,N''-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



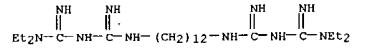
●2 HCl

RN 95476-56-5 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



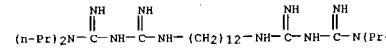
●2 HCl

RN 95476-57-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-dipropyl-, dihydrochloride (9CI) (CA INDEX NAME)



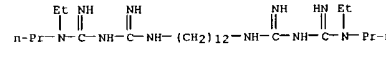
●2 HCl

RN 95476-62-3 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N,N'',N''-tetrapropyl-, dihydrochloride (9CI) (CA INDEX NAME)



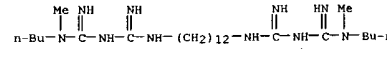
●2 HCl

RN 95476-64-5 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-N,N''-dipropyl-, dihydrochloride (9CI) (CA INDEX NAME)



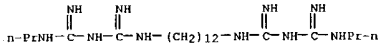
●2 HCl

RN 95476-65-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-dibutyl-3,18-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



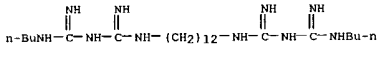
●2 HCl

RN 95476-70-3 CAPLUS
CN 2,4,12,14-Tetraazapentadecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,13-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



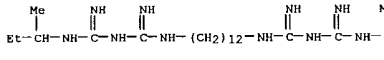
●2 HCl

RN 95476-58-7 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-dibutyl-3,18-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



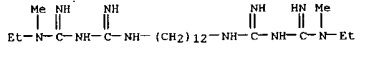
●2 HCl

RN 95476-59-8 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis(1-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



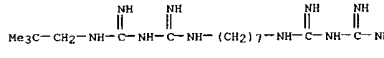
●2 HCl

RN 95476-60-1 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



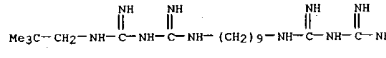
●2 HCl

RN 95476-61-2 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N,N'',N''-tetraethyl-3,18-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



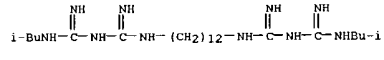
●2 HCl

RN 95476-71-4 CAPLUS
CN 2,4,14,16-Tetraazaheptadecanediimidamide, N,N''-bis(2,2-dimethylpropyl)-3,15-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



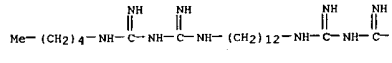
●2 HCl

RN 95476-72-5 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



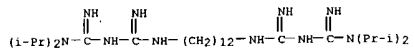
●2 HCl

RN 95476-73-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-dipentyl-, dihydrochloride (9CI) (CA INDEX NAME)



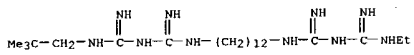
●2 HCl

RN 95476-77-0 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N,N'',N''-tetrakis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

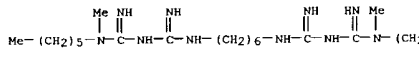


●2 HCl

RN 95476-81-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N-(2,2-dimethylpropyl)-N''-ethyl-3,18-diimino- (9CI) (CA INDEX NAME)

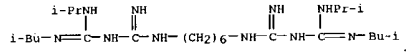


RN 95476-82-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



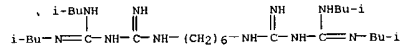
●2 HCl

RN 95476-84-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylethyl)-N',N'''-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

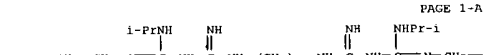
RN 95476-88-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N',N'',N'''-tetrakis(2-methylpropyl)- (9CI) (CA INDEX NAME)



PAGE 1-B

RN 95476-92-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(3-methylbutyl)-N',N'''-bis(1-methylethyl)- (9CI) (CA INDEX NAME)

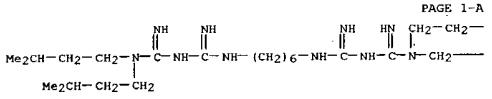
PAGE 1-A



PAGE 1-B

RN 95476-93-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N,N'',N''-tetrakis(3-methylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

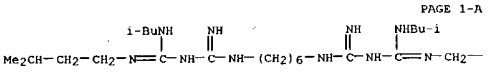


PAGE 1-B

RN 95476-94-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dibutyl-N,N''-diethyl-3,12-diimino- (9CI) (CA INDEX NAME)

RN 95476-89-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(3-methylbutyl)-N',N'''-bis(2-methylpropyl)- (9CI) (CA INDEX NAME)

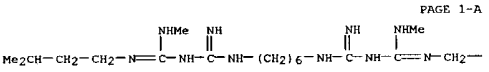
PAGE 1-A



PAGE 1-B

RN 95476-90-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dimethyl-N',N'''-bis(3-methylbutyl)- (9CI) (CA INDEX NAME)

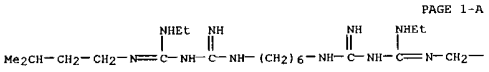
PAGE 1-A

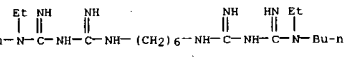


PAGE 1-B

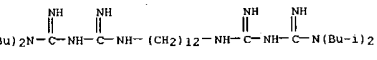
RN 95476-91-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diethyl-3,12-diimino-N',N'''-bis(3-methylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

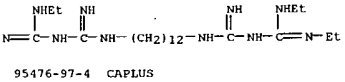




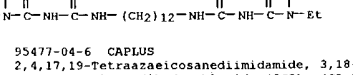
RN 95476-95-2 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N,N'',N'''-tetrakis(2-methylpropyl)- (9CI) (CA INDEX NAME)



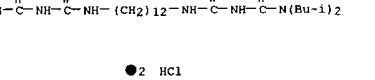
RN 95476-96-3 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N',N'',N'''-tetraethyl-3,18-diimino- (9CI) (CA INDEX NAME)



RN 95476-97-4 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, N,N''-diethyl-3,18-diimino-N,N''-dimethyl- (9CI) (CA INDEX NAME)



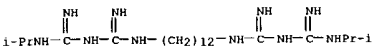
RN 95477-04-6 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N''-methyl-N,N-bis(2-methylpropyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

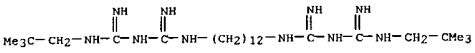
RN 95477-05-7 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis(1-methylethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 107 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



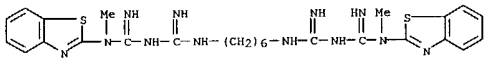
●2 HCl

RN 95509-75-4 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide,
N,N''-bis(2,2-dimethylpropyl)-3,18-
diimino-, dihydrochloride (9CI) (CA INDEX NAME)



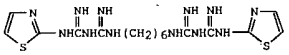
●2 HCl

L4 ANSWER 108 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

L4 ANSWER 108 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

AB RR1NC(:NH)NHC(:NH)NR2ZNR3C(:NH)NHC(:NH)NRR1 [R = (un)substituted heterocycle Z = alkylene; R1-3 = H, alkyl, aralkyl] were prepared and shown to have fungicidal activity. Thus, 29.4 g 93.2% 2-thiazolamine-HCl and 25.0 g (CH2)6[NHC(:NH)NHCN]2 were powdered and heated gradually to 140° (exotherm at 120°), heated 6 h at 140°; and heated 6 h at 160° to give 46 g title compound I.

ACCESSION NUMBER: 1985:78855 CAPLUS
DOCUMENT NUMBER: 102:78855
TITLE: Alkylenebis[heterocyclylbiguanide] derivs.
INVENTOR(S): Schmitt, Hans Georg; Schade, Gerold; Oeckl, Siegfried; Brandes, Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3319455	A1	19841129	DE 1983-3319455	19830528
EP 127062	A2	19841205	EP 1984-105495	19840515
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
AU 8428468	A1	19850103	AU 1984-28468	19840522
DK 8402599	A	19841129	DK 1984-2599	19840525
ZA 8403988	A	19850130	ZA 1984-3988	19840525
ES 532852	A1	19850201	ES 1984-532852	19840525
JP 59231071	A2	19841225	JP 1984-105697	19840526
PRIORITY APPLN. INFO.:			DE 1983-3319455	19830528

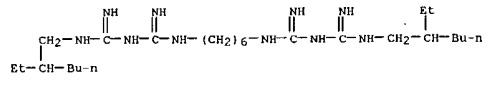
IT **94787-36-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)
RN 94787-36-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide,
N,N''-bis(2-benzothiazolyl)-3,12-
diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 109 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Dentifrices contain cationic bactericides such as biguanides (chlorhexidine [55-56-1]) and their stabilizers (nonionic surfactants and alcs. such as lauryl alc. [112-53-8], myristyl alc. [112-72-1], cetyl alc. [36653-82-4], or stearyl alc. [112-92-5]). Thus, a mouthwash comprises EtOH 15, glycerin 20, sorbitol 45, oxyethylenated hydrogenated castor oil 0.05, stearyl alc. 0.1, chlorhexidine 0.1, saccharin Na 0.1, flavor 3.0, and H2O to 100% by weight

ACCESSION NUMBER: 1984:577281 CAPLUS
DOCUMENT NUMBER: 101:177281
TITLE: Grol antiseptic containing formulations
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59101418	A2	19840612	JP 1982-212005	19821202
JP 03043246	B4	19910701		
PRIORITY APPLN. INFO.:			JP 1982-212005	19821202

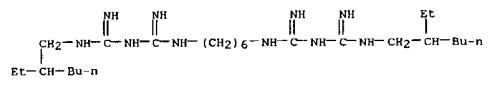
IT **22573-93-9 92094-75-2**
RL: BIOL (Biological study)
(dentifrices containing alcs. and surfactants and)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 92094-75-2 CAPLUS
CN D-Gluconic acid, compd. with N,N''-bis(2-ethylhexyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 22573-93-9
CMF C26 H56 N10

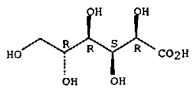


CM 2

L4 ANSWER 109 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CRN 526-95-4
CMF C6 H12 O7

Absolute stereochemistry.



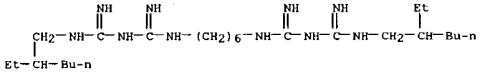
L4 ANSWER 110 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Oral compns. such as toothpastes and mouthwashes, effective in inhibiting plaque and gingivitis and decreasing stain caused by antimicrobials contain antimicrobials and a water-soluble carboxylic acid with a pKa of 3-6 or its salts. A Mg salt may also be included. Thus, mouthwashes were prepared, e.g., containing HOAc [64-19-7] 0.62, 50% NaOH 0.23, chlorhexidine digluconate [18472-51-0] 0.12, 95% EtOH 10, glycerol 8, flavor 0.03-0.08, Na saccharin 0.01, PEG 40 sorbitan diisostearate 0.075, and H2O to 100%.

ACCESSION NUMBER: 1984:516603 CAPLUS
DOCUMENT NUMBER: 101:116603
TITLE: Oral compositions containing antimicrobial agents effective against plaque and gingivitis
INVENTOR(S): Witt, Jonathan James; Parran, John Joseph, Jr.
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 110568	A1	19840613	EP 1983-306559	19831027
R: AT, BE, CH, DE, FR, IT, LI, NL, SE				
GB 2133689	A1	19840801	GB 1983-28717	19831027
DK 8304952	A	19840430	DK 1983-4952	19831028
FI 8303959	A	19840430	FI 1983-3959	19831028
JP 59134711	A2	19840802	JP 1983-203587	19831029
AU 8320815	A1	19840503	AU 1983-20815	19831031
PRIORITY APPLN. INFO.:			US 1982-437644 A	19821029
			US 1982-437645 A	19821029
			US 1983-523521 A	19830816
			US 1983-523523 A	19830816

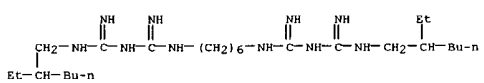
IT **22573-93-9**
RL: BIOL (Biological study)
(antimicrobial oral compns. containing carboxylic acids and)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 111 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The precipitation and surface staining reactions of the cationic antiseptics alexidine [**22573-93-9**], cetyl pyridinium chloride (CPC) [123-03-5], chlorhexidine gluconate [18472-51-0], chlorhexidine acetate [56-95-1], and hexetidine [141-94-6] with tea were studied. All of the antiseptics precipitated a standard tea solution and for alexidine and chlorhexidine acetate and gluconate, this was at concns. >100 μmol/L, for hexetidine >200 μmol/L, and for CPC >400 μmol/L. With the exception of CPC, precipitation was reduced with decreasing pH and for chlorhexidine was inhibited below pH 3. The addition of polymethylmethacrylate to the antiseptic solns. increased the precipitation concns. by an amount calculated to be adsorbed by polymer. Acrylic blocks treated with equimolar solns. of the antiseptics became progressively and significantly more stained by tea than control specimens over a 5-day period. Alexidine induced significantly greater staining and hexetidine significantly less than the other antiseptics. Staining was pH dependent and significantly reduced as the pH decreased. Both stain and ppts. were insol. in strong acids and alkalis. Staining observed clin. may represent a precipitation reaction with the complexing of antiseptics with dietary chromogenic material.

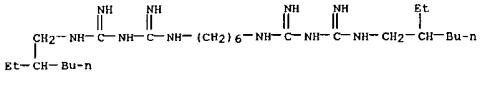
ACCESSION NUMBER: 1984:483634 CAPLUS
DOCUMENT NUMBER: 101:83634
TITLE: The formation of stain on acrylic surfaces by the interaction of cationic antiseptic mouthwashes and tea
AUTHOR(S): Addy, M.; Moran, J.
CORPORATE SOURCE: Dent. Sch., Welsh Natl. Sch. Med., Cardiff, CF4 4XY, UK
SOURCE: Journal of Biomedical Materials Research (1984), 18(6), 631-41
CODEN: JBMRBG; ISSN: 0021-9304
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BIOL (Biological study)
(acrylic and tooth staining from tea and)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 112 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The maximum inhibitory concentration (MIC) of com. mouthrinses containing alexidine, cetyl pyridinium chloride, chlorhexidine gluconate, and hexetidine against Oxford Staphylococcus (NCTC 6571) and Escherichia coli (NCTC 10418) was established by tube dilution after being adsorption to acrylate and after reaction with the beverage tea. The zones of inhibition around acrylic blocks soaked in the resp. antiseptics, with and without postexposure washings, were measured. The effects on zone width of placement of the antiseptic-soaked blocks in tea were recorded. The MIC values of alexidine, cetyl pyridinium chloride, and chlorhexidine gluconate, but not hexetidine, were all increased by the addition of polymethylmethyacrylate to cultures. Tea added to the culture increased the MIC values against E. coli for alexidine, chlorhexidine, and hexetidine, but not for cetyl pyridinium chloride. Zones of inhibition around antiseptic-treated blocks were reduced by washing and, in the case of hexetidine, completely abolished. Tea-soaking further reduced the zones of inhibition for alexidine and chlorhexidine, but not cetyl pyridinium chloride. It was concluded that surface adsorption and(or) reaction with chromogenic material reduces the antibacterial activity of the cationic antiseptics. Hexetidine in the mouthrinse employed appeared to possess little or no adsorption potential to acrylic.

ACCESSION NUMBER: 1984:420467 CAPLUS
DOCUMENT NUMBER: 101:20467
TITLE: The effect of surface adsorption and staining reactions on the antimicrobial properties of some cationic antiseptic mouthwashes
AUTHOR(S): Moran, J.; Addy, M.
CORPORATE SOURCE: Dent. Sch., Welsh Natl. Sch. Med., Cardiff, CF4 4XY, UK
SOURCE: Journal of Periodontology (1984), 55(5), 278-82
CODEN: JOPRAJ; ISSN: 0022-3492
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial activity of, in mouthwashes, surface adsorption effect on)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 112 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

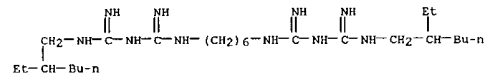
L4 ANSWER 113 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Antimicrobial skin cleansing compns. with improved foam texture and stability were prepared containing the title microbicides, e.g., chlorhexidine [55-56-1], alexidine **[22573-93-9]**, or chlorhexidine gluconate [18472-51-0], surfactants, and alcs. Thus, an antimicrobial composition was prepared containing chlorohexidine gluconate 4, PEG-78 glyceryl cocoate 10, Amphoteric-1 5, Laneth-16 1, benzyl alc. 1, N-(2-hydroxyethyl)acetamide 0.75, PEG 30 glyceryl cocoate 0.5, color 0.001, perfume 0.05, gluconic acid 2.19, and H2O to 100% (weight). The antimicrobial activity of these compns. was shown in humans (hand washing test).

ACCESSION NUMBER: 1984:91158 CAPLUS
DOCUMENT NUMBER: 100:91158
TITLE: Basic amino or ammonium antimicrobial agent-polyethylene glycol ester surfactant-betaine and/or amine oxide surfactant compositions
INVENTOR(S): Gorman, William G.; Popp, Karl F.
PATENT ASSIGNEE(S): Sterling Drug Inc., USA
SOURCE: U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 245,089, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4420484	A	19831213	US 1981-320754	19811112
ZA 8004901	A	19810826	ZA 1980-4901	19800812
US 32300	E	19861202	US 1985-752332	19850703
PRIORITY APPLN. INFO.:			US 1979-65885	A2 19790813
			US 1980-158737	A2 19800612
			US 1981-245089	A2 19810318
			US 1981-320754	A5 19811112

IT **22573-93-9**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(antimicrobial skin cleansing compns. containing)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

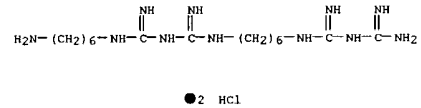


L4 ANSWER 114 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The antibacterial action of some polyhexamethylene biguanides upon Escherichia coli was investigated. An amine-ended dimer (n = 2), a polydisperse mixture (PHMB, n = 5.5), and a high mol. weight fraction (n ≥ 10) of PHMB were used. PHMB and the high mol. weight fraction totally inhibited growth and motility of E. coli in liquid culture, whereas the amine-ended dimer never totally inhibited either function, irresp. of concentration Growth inhibition and bactericidal activity increased with increasing polymerization The 3 compds., while active over different concentration ranges, possessed similar concentration exponents and temperature coeffs. Cytoplasmic membrane damage and disruption of the cell envelope was observed at concns. which were markedly bactericidal, whereas bacteriostatic concns. caused only loss of K. Loss of cytoplasmic materials from treated cells in all instances followed 1st order kinetics. This indicated that irreversible damage was initiated and completed within a short time of contact between cells and biocide. Alteration of cytoplasmic membrane permeability towards various cations was assessed by measuring rates of lysis of spheroplasts in isotonic solns. of Na, Li, and Cs acetate. For a given biocide concentration, the rates of lysis were inversely proportional to the hydrated ionic radii of the cation. This indicated that the damage to the cytoplasmic membrane was nonspecific and proportional to biocide concentration Temperature coeffs. (Q10) of .apprx.2.0 for the loss of 260 nm-absorbing material, inorg. phosphate, and K from treated cell suspensions and bactericidal activity suggested that death of cells and cytoplasmic membrane damage are directly associated and are a direct result of biocide action, rather than mediated through the induction of autolytic enzymes.

ACCESSION NUMBER: 1983:484974 CAPLUS
DOCUMENT NUMBER: 99:84974
TITLE: A study of the antibacterial activity of some polyhexamethylene biguanides towards Escherichia coli ATCC 8739
AUTHOR(S): Broxton, P.; Woodcock, P. M.; Gilbert, P.
CORPORATE SOURCE: Dep. Pharm., Univ. Manchester, Manchester, M13 9PL, UK
SOURCE: Journal of Applied Bacteriology (1983), 54(3), 345-53
CODEN: JABAA4; ISSN: 0021-8847
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **86756-32-3**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antibacterial action of, towards Escherichia coli)
RN 86756-32-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N-(6-aminohexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 114 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

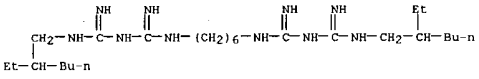
L4 ANSWER 115 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The susceptibility of selected oral bacteria, including suspected periodontopathogens, to a commonly employed Chinese herbal medicine, Huang-chin (HC, Scutellaria baicalensis), was tested in vitro. The min. inhibitory concentration (MIC) and min. bactericidal concns. (MBC) were determined HC was also compared with tetracycline, alexidine, and SnF2. The HC decoction, at a concentration of 2%, was bacteriostatic in 8 of 11 bacteria tested, but a concentration of ≥3.13% was required for the bactericidal effect. Among the tested bacteria, Bacteroides melaninogenicus intermedius was the most sensitive (MIC = 1.57%, MBC = 2%); Actinomyces viscosus was the least sensitive (MIC = 6.25%, MBD = 12.5%). Tetracycline, alexidine, and SnF2 were bactericidal in vitro in all bacteria tested at concns. lower than those used clin.

ACCESSION NUMBER: 1982:578622 CAPLUS
DOCUMENT NUMBER: 97:178622
TITLE: Effect of Chinese and Western antimicrobial agents on selected oral bacteria
AUTHOR(S): Tsao, T. F.; Newman, M. G.; Kwok, Y. Y.; Horikoshi, K.
CORPORATE SOURCE: Sch. Dent., UCLA, Los Angeles, CA, 90024, USA
SOURCE: Journal of Dental Research (1982), 61(9), 1103-6
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English

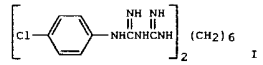
IT **22573-93-9**
RL: BIOL (Biological study)
(oral bacteria susceptibility to, vs. Huang-chin)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 116 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI



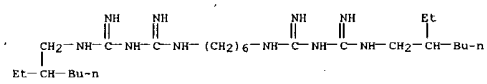
I

AB chlorhexidine-HCl (I-HCl) [3697-42-5], I acetate [56-95-1], I gluconate [18472-51-0], and alexidine-HCl (II-HCl) [**1715-30-6**], were determined potentiometrically in lozenges, mouthwashes, and surgical hand scrub. A Hg-coated Pt-Hg sulfate electrode system and 0.01M NaBPh4 titrant were used. Good accuracy was obtained with a concentration in the final assay solution of 0.06-0.2 mg/mL. Although the pH adjustment was not critical, the optimum end-point break (30-60 mV/0.01 mL titrant) was obtained in the presence of pH 3.4 acetate buffer.

ACCESSION NUMBER: 1982:91739 CAPLUS
DOCUMENT NUMBER: 96:91739
TITLE: Potentiometric analysis of chlorhexidine and alexidine salts in pharmaceutical preparations
AUTHOR(S): Pinzauti, S.; La Porta, E.; Papeschi, G.
CORPORATE SOURCE: Ist. Chim. Farm., Univ. Firenze, Florence, 50121, Italy
SOURCE: Pharmaceutica Acta Helvetiae (1981), 56(12), 337-40
CODEN: PAHEAA; ISSN: 0031-6865
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **1715-30-6**
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in pharmaceuticals by potentiometry)

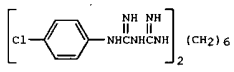
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 117 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I

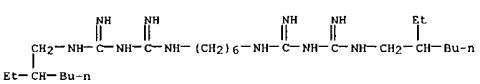
AB Bactericidal dentifrice, mouthwash, chewing gum and other oral hygiene compns. are prepared from chlorhexidine (I) [55-56-1] on alexidine [1,6-bis(2-ethylhexyldiguanido)hexane] [**22573-93-9**] or their salts and Zn salts (0.01-5% weight based on Zn) and the usual additives. Zn salts, added to these compns., decrease the tendency of discoloration of teeth. A tooth paste composition was prepared from I.2HF 0.15, Zn(OAc)2 0.25, hydroxyethyl cellulose 0.8, H2O 37.45, saccharin Na 0.05, glycerin 15, bentonite 1, hydrated aluminum oxide 0.2, nonionic emulsifier 2 and perfume 1.1%.

ACCESSION NUMBER: 1982:74623 CAPLUS
DOCUMENT NUMBER: 96:74623
TITLE: Oral hygiene agent
INVENTOR(S): Roella, Gunnar
PATENT ASSIGNEE(S): Blendax-Werke R. Schneider G.m.b.H. und Co., Fed. Rep. Ger.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3001575	A1	19810723	DE 1980-3001575	19800117
PRIORITY APPLN. INFO.:			DE 1980-3001575	19800117

IT **22573-93-9 78181-32-5**
RL: BIOL (Biological study)
(dentifrice composition containing zinc salts and)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

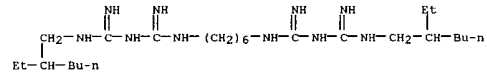


RN 78181-32-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, diacetate (9CI) (CA INDEX NAME)

L4 ANSWER 117 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 1

CRN 22573-93-9
CMF C26 H56 N10



CM 2

CRN 64-19-7
CMF C2 H4 O2

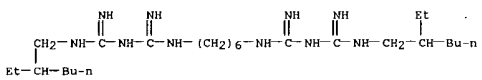
L4 ANSWER 118 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Poly(Me methacrylate) (I) [9011-14-7] was used in powder and optically clear forms to measure the adsorption and staining properties of some cationic antiseptics. The uptake of chlorhexidine gluconate [18472-51-0], chlorhexidine acetate [56-95-1], alexidine [**22573-93-9**] and cetylpyridinium chloride [123-03-5] onto acrylic powder was measured spectrophotometrically. Similarly, tea staining of perspex blocks exposed twice daily to the antiseptics and hexetidine [141-94-6], was measured over a 5 day period. The adsorption of chlorhexidine gluconate and acetate was similar and greater than alexidine but less than cetylpyridinium chloride. Desorption of the adsorbed antiseptics was minimal after 48 h soaking in water. Acid produced a variable desorption of antiseptics. Tea staining of blocks was significantly greater with antiseptic-treated specimens compared to control specimens. However, staining resulting from alexidine was greater than cetylpyridinium chloride which was greater than chlorhexidine. Hexetidine produced the least staining. Saliva treatment of specimens only increased the tea staining of control blocks. Adsorption levels alone would not explain the differences in antiplaque and staining activity reported for the cationic antiseptics. I appears to be a simple and inexpensive material for use in comparative adsorption and staining studied with cationic antiseptics. Further, it has the advantage of a large surface area for adsorption because of its small particle size.

ACCESSION NUMBER: 1981:538569 CAPLUS
DOCUMENT NUMBER: 95:138569
TITLE: The use of poly(methylmethacrylate) to compare the adsorption and staining reactions of some cationic antiseptics
AUTHOR(S): Addy, M.; Roberts, W. R.
CORPORATE SOURCE: Beckman Instrum. Inc., Fullerton, CA, 80566, USA
SOURCE: Journal of Periodontology (1981), 52(7), 380-5
CODEN: JOPRAJ; ISSN: 0022-3492
DOCUMENT TYPE: Journal
LANGUAGE: English

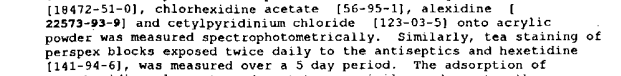
IT **22573-93-9**
RL: BIOL (Biological study)
(adsorption to and staining of poly(Me methacrylate) dental surface by)

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 119 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI



AB Alexidine (I) [**22573-93-9**] and chlorhexidine (II) [55-56-1], or their salts, are effective in inhibiting dental calculus formation, but cause discoloration of oral tissues; this discoloration can be prevented by addition of a Zn salt to formulations containing I or II. A toothpaste contained: hydroxyethyl cellulose 1, Et p-hydroxybenzoate 0.15, sorbitol 30, glycerol 30, polyethylene glycol 400 3, amorphous silica 20, H2O 10.9, 20% chlorhexidine digluconate [18472-51-0] 0.75, Zn(OAc)2 [557-34-6] 0.9, flavoring 1, and nonionic surfactant 2.3% by weight

ACCESSION NUMBER: 1981:430426 CAPLUS
DOCUMENT NUMBER: 95:30426
TITLE: Oral hygiene composition
INVENTOR(S): Roella, Gunnar
PATENT ASSIGNEE(S): Blendax-Werke R. Schneider G.m.b.H. und Co., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 26252	A1	19810408	EP 1980-100245	19800118
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
PRIORITY APPLN. INFO.:			NO 1979-3113 A	19790927

IT **22573-93-9 78181-32-5**
RL: BIOL (Biological study)
(mouth tissue discoloration from, zinc salts prevention of)

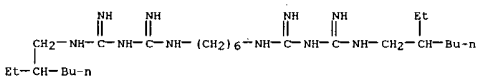
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

RN 78181-32-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, diacetate (9CI) (CA INDEX NAME)

L4 ANSWER 119 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 1

CRN 22573-93-9
CMF C26 H56 N10



CM 2

CRN 64-19-7
CMF C2 H4 O2

L4 ANSWER 120 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB An antistain additive HO2CCH2C[P(O)(OH)2](CO2H)CH2CH2CO2H (I) [37971-36-1] is added to dentifrices and mouthwashes containing antibacterial-antiplaque compds. such as chlorohexidine digluconate [18472-51-0] or cetylpyridinium chloride [123-03-5] to inhibit tooth stains caused by these antibacterial agents. Dental staining was decreased in a slurried hydroxylapatite evaluation of a mouthwash containing 0.1-1% I and cetylpyridinium chloride, compared with similar mouthwashes not containing I.

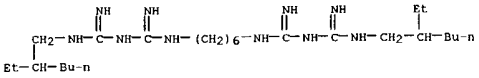
ACCESSION NUMBER: 1981:20439 CAPLUS
DOCUMENT NUMBER: 94:20439
TITLE: Antibacterial oral composition
INVENTOR(S): Gaffar, Abdul; Grecsek, John J.
PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4224309	A	19800923	US 1979-69464	19790824
DK 8003353	A	19810225	DK 1980-3353	19800804
DK 159372	B	19901008		
DK 159372	C	19910318		
AU 8061037	A1	19810226	AU 1980-61037	19800804
AU 534902	B2	19840223		
DE 3029921	A1	19810312	DE 1980-3029921	19800807
SE 8005622	A	19810225	SE 1980-5622	19800808
AT 8004126	A	19840915	AT 1980-4126	19800812
AT 390188	B	19900326		
NL 8004619	A	19810226	NL 1980-4619	19800814
FR 2463614	A1	19810227	FR 1980-18031	19800818
FR 2463614	B1	19850111		
CA 1150151	A1	19830719	CA 1980-358476	19800818
CH 646051	A	19841115	CH 1980-6225	19800818
BE 884896	A1	19801216	BE 1980-201845	19800822
GB 2056857	A	19810325	GB 1980-27340	19800822
GB 2056857	B2	19840725		
JP 56059704	A2	19810523	JP 1980-116905	19800825
JP 63032763	B4	19880701		
PRIORITY APPLN. INFO.:			US 1979-69463 A	19790824
			US 1979-69464 A	19790824

IT **1715-30-6**
RL: BIOL (Biological study)
(antibacterial oral compns. containing, tooth discoloration by, phosphonobutanetricarboxylic acid prevention of)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 120 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

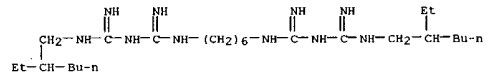
L4 ANSWER 121 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Oral compns. for controlling dental plaques, gingivitis, and caries comprise 0.1-1.0% cationic antimicrobial agent, e.g., bisbiguanides or quaternary ammonium compound and 0.1-3.5% antistain composition comprising 0.5-1.5% nonionic surfactant and 0.5-2.0% organic carboxylic acid. A number of examples were given containing Alexidine 2HCl **[1715-30-6]**, surfactants such as Brij 35 S.P. [9002-92-0], Tween 80 [9005-65-6], Emsorb 6912 [66794-58-9], or Pluronic F-108 [9003-11-6], and acids such as p-aminobenzoic acid [150-13-0] or aspartic acid [56-84-8]. Combustions of Brij 35 S.P. and amino or carboxylic acids decreased staining resulting from alexidine 2HCl of 41-69% in vitro.

ACCESSION NUMBER: 1980:592059 CAPLUS
DOCUMENT NUMBER: 93:192059
TITLE: Oral compositions
INVENTOR(S): Bhargava, Hridaya N.; Curtis, Stephen N.
PATENT ASSIGNEE(S): Beecham, Inc., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

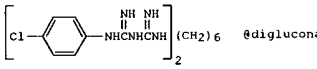
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4213961	A	19800722	US 1978-889205	19780323
US 4256731	A	19810317	US 1979-88575	19791026
PRIORITY APPLN. INFO.:			US 1978-889205	A3 19780323

IT **1715-30-6**
RL: BIOL (Biological study)
(antistaining oral compns. containing surfactants and carboxylic acids and)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 122 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



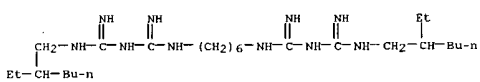
@digluconate

II

AB Six antimicrobial agents were tested in vitro against 68 strains of oral bacteria. The bisguanidines alexidine dihydrochloride (I) [**1715-30-6**] and chlorhexidine gluconate (II) [18472-51-0] were the most effective agents, with average minimal inhibitory concns. (MIC) of 0.08 and 0.12 μg/mL, resp. The cationic surfactants benzalkonium chloride and cetylpyridinium chloride [123-03-5] were 10 times less active than I and II. The bactericidal activity of Na 3,5,4'-tribromosalicylanilide (TBS) [4836-29-7] was intermediate between the bisguanidines and the surfactants. 8-Hydroxyquinoline [148-24-3] was the least effective drug, with average MIC of 11.33 μg/mL. The studied drugs could be tested as preventive agents against oral infections.

ACCESSION NUMBER: 1980:489308 CAPLUS
DOCUMENT NUMBER: 93:89308
TITLE: Susceptibility of oral facultative and anaerobic bacteria to antimicrobial agents
AUTHOR(S): Baker, P. J.; Evans, R. T.; Slots, J.; Coburn, R. A.; Genco, R. J.
CORPORATE SOURCE: Sch. Dent., State Univ. New York, Buffalo, NY, 14214, USA
SOURCE: Curr. Chemother. Infect. Dis., Proc. Int. Congr. Chemother., 11th (1980), Meeting Date 1979, Volume 2, 888-90. Editor(s): Nelson, John D.; Grassi, Carlo. Am. Soc. Microbiol.: Washington, D. C.
CODEN: 43MKAT
DOCUMENT TYPE: Conference
LANGUAGE: English

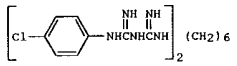
IT **1715-30-6**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(oral bacteria sensitivity to)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 122 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

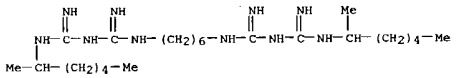
L4 ANSWER 123 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

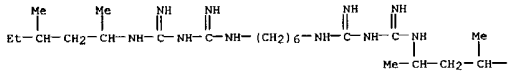
AB S. mutans Was more tolerant to potential antiplaque agents chlorhexidine (I) [55-56-1], 1,6-bis(cyclohexylmethyl-N1-biguanido)hexane [**52057-86-0**], 1,6-bis(2-norbornyl-N1-biguanido)hexane [52057-87-1], N1-p-chlorophenyl-N5-hexylbiguanide [55349-77-4], and N1-p-chlorophenyl-N5-octylbiguanide [55349-79-6] than was S. sanguis. 1,6-Bis(1-methylhexyl-N1-biguanido)hexane **[52057-82-6]**, 1,6-bis(1,3-dimethylpentyl-N1-biguanido)hexane **[52057-83-7]**, and 1,6-bis(1,4-dimethylpentyl-N1-biguanido)hexane **[52057-84-8]** were equally effective against the 2 species. Of 7 cationic detergents tested, only 5 killed pregrown plaques of S. mutans and S. sanguis at acceptably low concns. The most effective compound, CTAB [57-09-0], killed both organisms at the same concentration; inorg. iodine killed S. mutans at concns. permitting S. sanguis survival, and similar results were obtained with three 8-hydroxyquinoline compds. It may be possible to remove the most cariogenic element of in vivo plaque (S. mutans), leaving more innocuous elements such as S. sanguis relatively unharmed.

ACCESSION NUMBER: 1980:209485 CAPLUS
DOCUMENT NUMBER: 92:209485
TITLE: Differential bactericidal properties of topical antiseptics on in vitro plaques of Streptococcus mutans and S. sanguis
AUTHOR(S): Slee, A. M.; Tanzer, J. M.
CORPORATE SOURCE: Sch. Dent. Med., Univ. Connecticut, Farmington, CT, 06032, USA
SOURCE: Pathog. Streptococci, Proc. Int. Symp., 7th (1979), Meeting Date 1978, 203-4. Editor(s): Parker, M. T. Reedbooks Ltd.: Chertsey, Engl.
CODEN: 42XJA6
DOCUMENT TYPE: Conference
LANGUAGE: English
IT **52057-82-6 52057-83-7 52057-84-8 52057-86-0**
RL: PRP (Properties)
(Streptococcus mutans and Streptococcus sanguis sensitivity to, tooth plaque in relation to)
RN 52057-82-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylhexyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 123 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 52057-83-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)

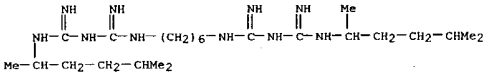
PAGE 1-A



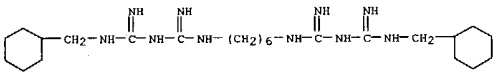
PAGE 1-B

—Et

RN 52057-84-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,4-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 52057-86-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino- (9CI) (CA INDEX NAME)



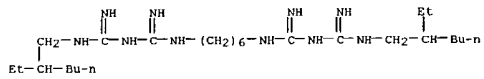
L4 ANSWER 124 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB A composition for controlling dental plaque, gingivitis, and dental caries contains a bisguanide quaternary ammonium bactericide and malic acid [6915-15-7] to reduce dental staining by the bactericide. Thus a mouthwash was prepared from alexidine·2HCl **[1715-30-6]** 0.035, glycerol 10, EtOH 15, flavor 0.4, Na saccharin 0.02, malic acid 0.382, and H2O to 100%, buffered at pH 5-8.

ACCESSION NUMBER: 1980:82444 CAPLUS
DOCUMENT NUMBER: 92:82444
TITLE: Oral hygiene compositions
INVENTOR(S): Rodon, Maria
PATENT ASSIGNEE(S): Beecham, Inc., USA
SOURCE: Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 4719	A2	19791017	EP 1979-300425	19790319
EP 4719	A3	19791031		
R: BE, DE, FR, GB, IT, NL, SE				
US 4183916	A	19800115	US 1978-892276	19780331
DK 7901341	A	19791001	DK 1979-1341	19790330
AU 7945560	A1	19791004	AU 1979-45560	19790330
AU 523448	B2	19820729		
ZA 7901531	A	19800430	ZA 1979-1531	19790330
CA 1116091	A1	19820112	CA 1979-324719	19790330
US 31397	E	19830927	US 1981-223312	19811109

PRIORITY APPLN. INFO.: US 1978-892276 19780331

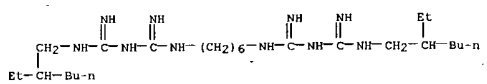
IT **1715-30-6**
RL: BIOL (Biological study)
(mouthwash composition containing malic acid and)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

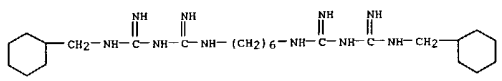
L4 ANSWER 125 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB An in vitro model system was employed to determine the relative binding affinities of a series of 16 chlorhexidine analogs to acidic functional groups similar to those which are abundant in the oral cavity. The chlorhexidine analogs displayed a range of binding affinities and were displaced subsequent to binding from carboxylate- and phosphonate-substituted resins, although not from sulfonate-substituted resins, by divalent cations or by saliva-like divalent cation-rich solns. The agents were not displaced from such surfaces by monovalent cations. There appears to be no correlation between the relative binding affinities of these agents to anionic groups and their previously observed in vitro antiplaque potencies.

ACCESSION NUMBER: 1979:534717 CAPLUS
DOCUMENT NUMBER: 91:134717
TITLE: Studies on the relative binding affinities of chlorhexidine analogs to cation exchange surfaces
AUTHOR(S): Slee, Andrew M.; Tanzer, Jason M.
CORPORATE SOURCE: Sch. Dent. Med., Univ. Connecticut, Farmington, CT, USA
SOURCE: Journal of Periodontal Research (1979), 14(3), 213-19
CODEN: JPDRAY; ISSN: 0022-3484
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6 50876-92-1 50876-94-3 50876-95-4 50876-96-5 51032-06-5**
RL: PROC (Process)
(cation exchangers binding of)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

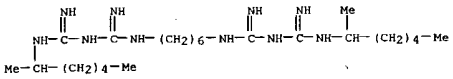
RN 50876-92-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 125 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

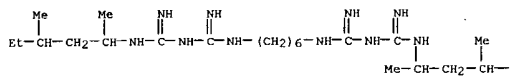
RN 50876-94-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylhexyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 50876-95-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

PAGE 1-B

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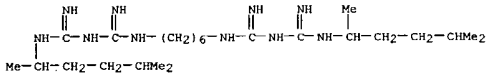
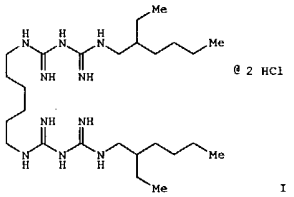
RN 50876-96-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,4-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 126 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



@ 2 HCl

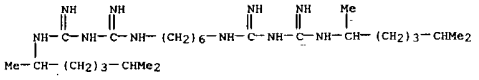
I

AB A simple gravimetric determination is developed for alexidine dihydrochloride (I) [**1715-30-6**] as a drug entity and its troche and mouthwash dosage forms, without interference from common excipients. NaBPh4 solution was the precipitant in an acidic medium. The procedure provides a precise and accurate anal. when the amount of I in the assaying aliquot of aqueous solution is >0.01 g.

ACCESSION NUMBER: 1979:529086 CAPLUS
DOCUMENT NUMBER: 91:129086
TITLE: Gravimetric quantitation of alexidine dihydrochloride and its dosage forms
AUTHOR(S): Pinzauti, S.; La Porta, E.; De Sio, F.
CORPORATE SOURCE: Ist. Chim. Farm., Univ. Firenze, Florence, 50121, Italy
SOURCE: Journal de Pharmacie de Belgique (1979), 34(2), 101-3
CODEN: JPBEAJ; ISSN: 0047-2166
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6**
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in pharmaceuticals, by gravimetry)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

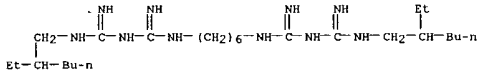
L4 ANSWER 125 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 51032-06-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 126 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

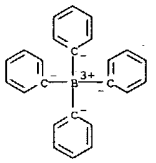


●2 HCl

IT **71381-02-7P**
RL: PREP (Preparation)
(preparation of)
RN 71381-02-7 CAPLUS
CN Borate(1-), tetraphenyl-, hydrogen, compd. with N,N''-bis(2-ethylhexyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

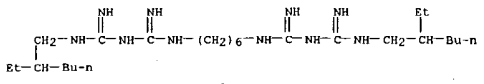
CRN 33906-65-9
CMF C24 H20 B . H
CCI CCS



● H+

CM 2

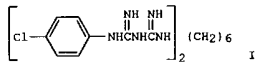
CRN 22573-93-9
CMF C26 H56 N10



L4 ANSWER 126 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 127 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

GI

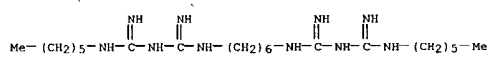


I

AB Nine analogs of chlorhexidine (I) [55-56-1], including Alexidine [**22573-93-9**], in which the p-chlorophenyl group had been replaced by straight or branched alkyl chains were substantive to saliva coated enamel. These alkyl bisbiguanides were also antimicrobial in a tube dilution assay and prevented the formation of plaque in an in vitro plaque assay. Each of these compds. was equal to or greater than chlorhexidine in antimicrobial or plaque inhibition activity against the periodontal organisms Actinomyces viscosus and A. naeslundii. Against the cariogenic organism Streptococcus mutans, each of these compds. was active but none had more antimicrobial or plaque inhibition activity than chlorhexidine. Alexidine was not more active than several of the other analogs.

ACCESSION NUMBER: 1979:517906 CAPLUS
DOCUMENT NUMBER: 91:117906
TITLE: Alkylbis(biguanides) as in vitro inhibitors of bacterial growth and dental plaque formation
AUTHOR(S): Baker, P. J.; Coburn, R. A.; Genco, R. J.; Evans, R. T.
CORPORATE SOURCE: Sch. Dent., State Univ. New York, Buffalo, NY, USA
SOURCE: Journal of Periodontal Research (1979), 14(4), 352-60
CODEN: JPDRAY; ISSN: 0022-3484
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **18342-69-3 18342-70-6 20347-58-4**
22573-93-9 67026-27-1 67026-28-2
67026-29-3 67026-30-6 67026-31-7
RL: PRP (Properties)
(bacteria sensitivity to, tooth plaque in relation to)

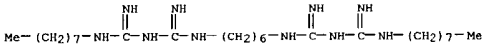
RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

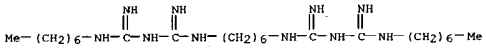
RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 127 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



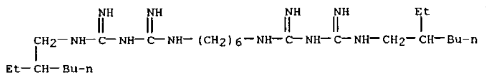
●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



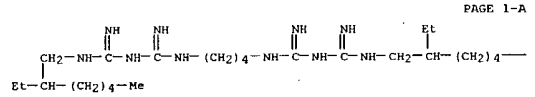
●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 67026-27-1 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, N,N''-bis(2-ethylheptyl)-3,10-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

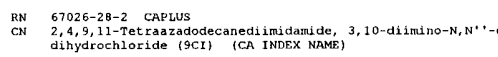
PAGE 1-A



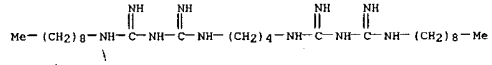
●2 HCl

L4 ANSWER 127 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

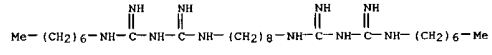


RN 67026-28-2 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, 3,10-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)



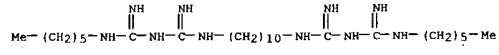
●2 HCl

RN 67026-29-3 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-diheptyl-3,14-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

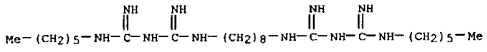
RN 67026-30-6 CAPLUS
CN 2,4,15,17-Tetraazaoctadecanediimidamide, N,N''-dihexyl-3,16-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

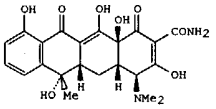
RN 67026-31-7 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-dihexyl-3,14-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 127 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

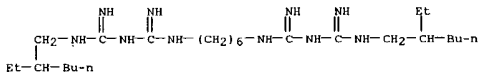
L4 ANSWER 128 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

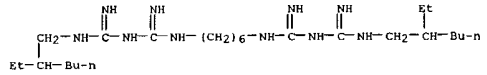
AB When tested against 40 anaerobic, capnophilic, and facultative bacteria isolated from patients with various forms of periodontal health and disease, tetracycline (I) [60-54-8], penicillin [61-33-6], and ampicillin [69-53-4] inhibited 98, 93, and 93% of the organisms, resp. Microorganisms isolated from supra- and subgingival plaque were sensitive to chlorhexidine [55-56-1]. Alexidine [**22573-93-9**] (0.0021%) and NaF (0.33%) inhibited growth of all organisms tested.

ACCESSION NUMBER: 1979:517903 CAPLUS
DOCUMENT NUMBER: 91:117903
TITLE: Antibacterial susceptibility of plaque bacteria
AUTHOR(S): Newman, Michael G.; Hulem, Charles; Colgate, Judith; Anselmo, Carl
CORPORATE SOURCE: Dep. Dent., Univ. California, Los Angeles, CA, 90024, USA
SOURCE: Journal of Dental Research (1979), 58(7), 1722-32
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(bactericidal activity of, tooth plaque in relation to)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 129 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The antimicrobial and cariostatic activities of alexidine-2HCl (I-2HCl) [
1715-30-6] and alexidine-2HF [**55006-94-5**] were compared to those of chlorhexidine acetate and NaF in rats implanted orally with Streptococcus mutans 6715 and fed a cariogenic diet. Exptl. caries was significantly reduced by the continuous administration of low concns. of biguanides I and chlorhexidine via the drinking water, but this was accompanied by increased staining of the molars. Very high biguanide concns., applied infrequently, directly to the molars, effectively reduced caries and resulted in less staining. A combination of I-2HCl and NaF offered no advantage over either drug alone. I salts prevented the progressive increase in implanted S. mutans, whereas chlorhexidine acetate practically eliminated the microorganism from the oral cavity. NaF had no effect on the implanted flora. Thus, I salts are comparable in cariostatic activity to chlorhexidine. The tooth staining accompanying the use of I salts can be reduced by adjusting the concentration of the drug and its frequency of application.

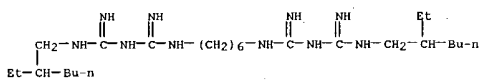
ACCESSION NUMBER: 1979:501982 CAPLUS
DOCUMENT NUMBER: 91:101982
TITLE: Cariostatic activity of (1,6-bis-[2-ethylhexylbiguanido]hexane) in conventional rats
AUTHOR(S): Curtis, Stephen N.; Dooley, Claire L.
CORPORATE SOURCE: Western Hemisphere Res., Beecham Prod., Parsippany, NJ, 07054, USA
SOURCE: Journal of Dental Research (1979), 58(4), 1405-12
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6 55006-94-5**
RL: BIOL (Biological study)
(tooth caries prevention by)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

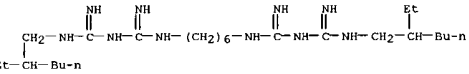
RN 55006-94-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrofluoride (9CI) (CA INDEX NAME)

L4 ANSWER 129 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

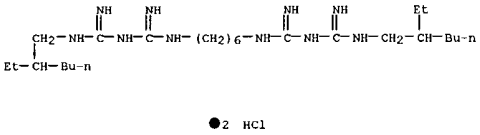


●2 HF

L4 ANSWER 130 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Thirty-seven compds., including 17 biguanides, 6 carbamimidates, and 14 bisbiguanides, were evaluated for potential antiplaque activity by measuring their min. inhibitory concns. (MIC) against S. mutans. Linear regression anal. was conducted with the log 1/MIC values and partition coefficient (log P), π, σ, and fragment molar refractivity. The best correlation for the biguanides (r2 = 0.92) was obtained with log P and (log P)2. When the biguanides were included with the carbamimidates, essentially the same correlation (r2 = 0.91) was obtained with log P and (log P)2. The best correlation for the bisbiguanides (r2 = 0.70) was also obtained with log P and (log P)2. Use of an indicator variable for the bisbiguanides allowed all 3 groups to be included in 1 equation, which accounted for >87% of the variance in the data for inhibition of bacterial growth. The results from the classical parabolic model were also compared with those from the recently developed bilinear model.
ACCESSION NUMBER: 1979:133326 CAPLUS
DOCUMENT NUMBER: 90:133326
TITLE: Quantitative structure-activity relationships for biguanides, carbamimidates, and bisbiguanides as inhibitors of Streptococcus mutans Number 6715
AUTHOR(S): Warner, Victor D.; Lynch, Donald M.; Kim, Ki Hwan; Grunewald, Gary L.
CORPORATE SOURCE: Coll. Pharm. Allied Health Prof., Northeastern Univ., Boston, MA, USA
SOURCE: Journal of Medicinal Chemistry (1979), 22(4), 359-66
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal activity of, structure in relation to)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 131 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB At concns. of 0.2-2.0 mM and pH 6.5-6.8, bis(biguanides), quaternary ammonium salts, and aliphatic amines were all potent inhibitors of glucosyltransferase (I) [9031-48-5]. Na lauryl sulfate [151-21-3] and hexylresorcinol [136-77-6] also inhibited the activity of I. Basic N compds. lacking a functional hydrophobic group were less inhibitory, and at 5-50 mM at pH 6.5, they stimulated I activity and glucan synthesis. Hence, both electrostatic and hydrophobic interactions apparently occur between the cationic test agents and I, with hydrophobic interactions being more important for I inhibition.
ACCESSION NUMBER: 1979:81442 CAPLUS
DOCUMENT NUMBER: 90:81442
TITLE: The effect of antibacterial compounds on glucosyltransferase activity from Streptococcus mutans
AUTHOR(S): Ciardi, J. E.; Bowen, W. H.; Rolla, G.
CORPORATE SOURCE: Natl. Inst. Dent. Res., Natl. Inst. Health, Bethesda, MD, USA
SOURCE: Archives of Oral Biology (1978), 23(4), 301-5
CODEN: AOBIAR; ISSN: 0003-9969
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6**
RL: PRP (Properties)
(glucosyltransferase of Streptococcus mutans inhibition by)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

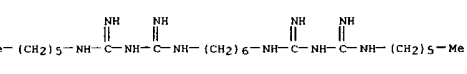


●2 HCl

L4 ANSWER 132 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Antimicrobial cleansing compns. for human skin contain 1,1'-R1-bis(5-R-biguanide)s with structure [RNHC(:NH)NHC(:NH)NH]2 (I) where R = C6-16 alkyl and R1 = C2-12 alkylene, or their acid addition salts; and either a surfactant or a surfactant-H2O mixture For example, a cleansing composition was prepared from 0.5 g of either I(R = hexyl, R1 = hexamethylene)-2HCl **[10342-69-3]**, I(R = heptyl, R1 = CH2)-2HCl **[20347-58-4]**, or I(R = 2-ethylhexyl, R1 = hexamethylene)-2HCl **[68845-44-3]**; 16.0 g of a surfactant mixture comprising Triton X-100 500, Emulphogene BC 840 250, and Geigy foam stabilizer N-22 50 g; 3.0 g hexylene glycol; and distilled H2O to give 100 mL. The pH was adjusted from 9.3 to 8.0 with HCl. The prepns. showed good antimicrobial activity against Staphylococcus aureus.
ACCESSION NUMBER: 1979:61232 CAPLUS
DOCUMENT NUMBER: 90:61232
TITLE: Antimicrobial skin cleaning compositions
INVENTOR(S): Cutler, Royal Anzly
PATENT ASSIGNEE(S): Sterling Drug Inc., USA
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2801390	A1	19780720	DE 1978-2801390	19780113
GB 1556632	A	19791128	GB 1977-54335	19771230
AU 7832171	A1	19790712	AU 1978-32171	19780104
FR 2377446	A1	19780811	FR 1978-579	19780110
BE 862808	A1	19780711	BE 1978-8635	19780111
NL 7800375	A	19780718	NL 1978-375	19780112
SE 7800430	A	19780715	SE 1978-430	19780113
DK 7800164	A	19780715	DK 1978-164	19780113
JP 53088808	A2	19780804	JP 1978-3245	19780114
PRIORITY APPLN. INFO.:			US 1977-759265	19770114

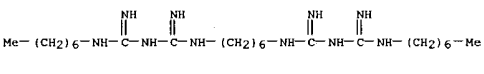
IT **10342-69-3 20347-58-4 68704-93-8 68845-44-3**
RL: BIOL (Biological study)
(skin cleansing composition containing)
RN 10342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-,

L4 ANSWER 132 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
dihydrochloride (9CI) (CA INDEX NAME)

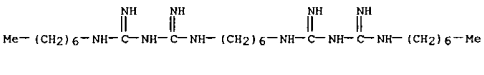


●2 HCl

RN 68704-93-8 CAPLUS
CN D-Gluconic acid, compd. with N,N''-diheptyl-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

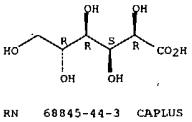
CRN 68704-92-7
CMF C24 H52 N10



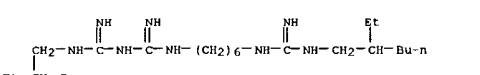
CM 2

CRN 526-95-4
CMF C6 H12 O7

Absolute stereochemistry.

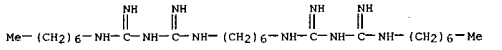


RN 68845-44-3 CAPLUS
CN 2,4,11,13-Tetraazanonadecanimidamide, 15-ethyl-N-(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



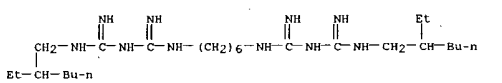
●2 HCl

L4 ANSWER 132 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



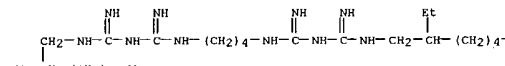
●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 67026-27-1 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, N,N''-bis(2-ethylheptyl)-3,10-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

PAGE 1-B

—Me

RN 67026-28-2 CAPLUS
CN 2,4,9,11-Tetraazadodecanediimidamide, 3,10-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)

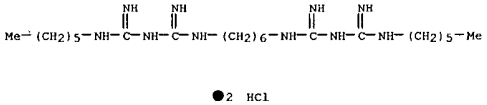
L4 ANSWER 133 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Eight alkyl bis(biguanide) analogs [[RNHC(:NH)NHC(:NH)NH]2(CH2)n·2HCl] (I) of alexidine [**22573-93-9**], 5 constituting an isolipophilic series, were synthesized by treatment of α,ω-diaminoalkanes with Na dicyanamide [1934-75-4] to give α,ω-bis(N3-cyano-N1-guanidino)alkanes which were converted to the desired I by reaction with the appropriate amine. I were evaluated in vitro for antibacterial and antiplaque properties. I; (R = (CH2)7Me, n = 6) [**18342-70-6**] was more effective than alexidine or chlorhexidine against Streptococcus mutans, Actinomyces visocsus, and Actinomyces naesludii.

ACCESSION NUMBER: 1978:500773 CAPLUS
DOCUMENT NUMBER: 89:100773
TITLE: In vitro antiplaque properties of a series of alkyl bis(biguanides)
AUTHOR(S): Coburn, Robert A.; Baker, Pamela J.; Evans, Richard T.; Genco, Robert J.; Fischman, Stuart L.
CORPORATE SOURCE: Sch. Pharm., State Univ. New York, Buffalo, NY, USA
SOURCE: Journal of Medicinal Chemistry (1978), 21(8), 828-9
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English

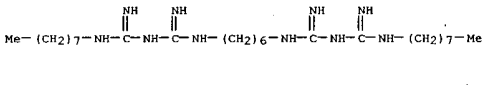
IT **18342-69-3P 18342-70-6P 20347-58-4P**
22573-93-9P 67026-27-1P 67026-28-2P
67026-29-3P 67026-30-6P 67026-31-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antiplaque activity of)

RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

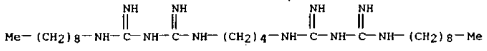
RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

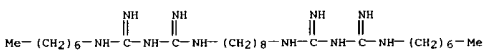
RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 133 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



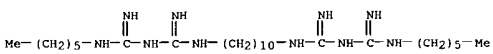
●2 HCl

RN 67026-29-3 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-diheptyl-3,14-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



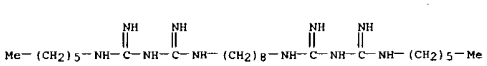
●2 HCl

RN 67026-30-6 CAPLUS
CN 2,4,15,17-Tetraazaoctadecanediimidamide, N,N''-dihexyl-3,16-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



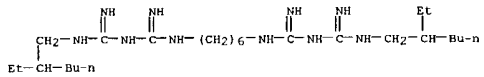
●2 HCl

RN 67026-31-7 CAPLUS
CN 2,4,13,15-Tetraazahexadecanediimidamide, N,N''-dihexyl-3,14-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



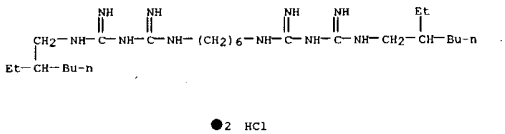
●2 HCl

L4 ANSWER 134 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Two-hundred and fourteen subjects ranging in age from 22 to 63 yr used either a mouthwash that contained 0.035% w/v alexidine-2HCl (2-ethylhexyl bisbiguanidine-2HCl) [**1715-30-6**] or a placebo twice daily on a double-blind basis for 6 mo in conjunction with routine oral hygiene procedures. The results indicated that alexidine-2HCl was safe and was statistically more effective in producing a clin. significant reduction in gingivitis than was the placebo.
ACCESSION NUMBER: 1978:453525 CAPLUS
DOCUMENT NUMBER: 89:53525
TITLE: Effects of alexidine dihydrochloride mouthwash on plaque and gingivitis after six months
AUTHOR(S): Spolsky, Vladimir W.; Forsythe, Alan B.
CORPORATE SOURCE: Cent. Health Sci., Univ. California, Los Angeles, CA, USA
SOURCE: Journal of Dental Research (1977), 56(11), 1349-58
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6**
RL: BIOL (Biological study)
(gingivitis and tooth plaque response to)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



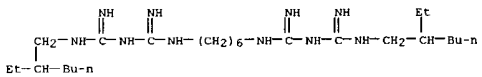
●2 HCl

L4 ANSWER 135 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The organic fluorides, alexidine dihydrofluoride [**55006-94-5**] and oleylamine-HF [7333-84-8], provided greater protection against caries than NaF when used as a daily mouthrinse in rats. Alexidine-2HCl [**1715-30-6**] also provided significant caries restriction.
ACCESSION NUMBER: 1978:83491 CAPLUS
DOCUMENT NUMBER: 88:83491
TITLE: Effects of daily rinses using sodium fluoride and organic fluorides on rat caries
AUTHOR(S): Shern, Roald J.; Amsbaugh, Suzanne M.; Reynolds, G. Ransom
CORPORATE SOURCE: Natl. Inst. Dent. Res., NIH, Bethesda, MD, USA
SOURCE: Journal of Dental Research (1977), 56(9), 1063-6
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6 55006-94-5**
RL: BIOL (Biological study)
(tooth caries prevention by)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



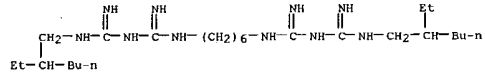
●2 HCl

RN 55006-94-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrofluoride (9CI) (CA INDEX NAME)



●2 HF

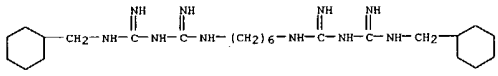
L4 ANSWER 136 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The bactericidal efficacy of 16 guanide, biguanide, and bisbiguanide agents was studied in vitro against intact preformed plaques of 4 oral (plaque-forming) microorganisms: Streptococcus mutans, S. sanguis, Actinomyces viscosus, and A. naeslundii. The activities of these agents were examined in relation to their mol. configurations. These studies indicated that the bis- and biguanide configurations are important for efficacy, as is the length of the alkyl side chain. No structural moiety determined efficacy by itself. Furthermore, the activities of these agents were studied to determine the minimal conditions (concentration, duration, and frequency) of treatment required for likely clin. efficacy. At least 6 agents were judged to have equal or greater efficacy than the reference agent, chlorhexidine digluconate [18472-51-0]. A plaque bactericidal index was derived for the most potent agents, and comparison to the bactericidal properties of chlorhexidine was expressed as a chlorhexidine coefficient
ACCESSION NUMBER: 1978:58877 CAPLUS
DOCUMENT NUMBER: 88:58877
TITLE: Structural requirements of guanide, biguanide, and bisbiguanide agents for antiplaque activity
AUTHOR(S): Tanzer, J. M.; Slee, A. M.; Kamay, B. A.
CORPORATE SOURCE: Sch. Dent. Med., Univ. Connecticut Health Cent., Farmington, CT, USA
SOURCE: Antimicrobial Agents and Chemotherapy (1977), 12(6), 721-9
CODEN: AMACCQ; ISSN: 0066-4804
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6 50876-92-1 50876-94-3 50876-95-4 50876-96-5 51032-06-5**
RL: PRP (Properties)
(tooth plaque inhibition by)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

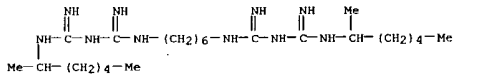
RN 50876-92-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 136 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 50876-94-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylhexyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 50876-95-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

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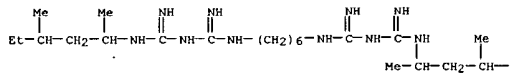

●2 HCl

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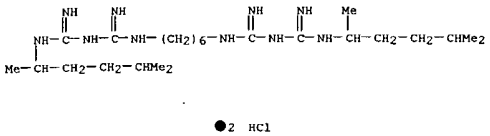
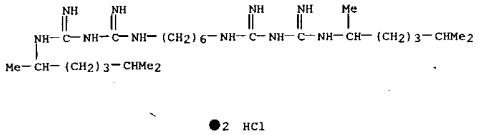
RN 50876-96-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,4-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 136 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



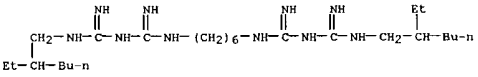
●2 HCl

RN 51032-06-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

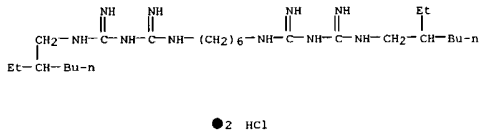


●2 HCl

L4 ANSWER 137 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The preparation and use of a ceramic hydroxylapatite [1306-06-5] plaque growth
and drug screening substrate is described. This material closely mimics dental enamel in vitro in regard to the rate of plaque accumulation and the effectiveness of antiplaque drugs.
ACCESSION NUMBER: 1977:182883 CAPLUS
DOCUMENT NUMBER: 86:182883
TITLE: Ceramic hydroxylapatite as a plaque growth and drug screening substrate
AUTHOR(S): Jarcho, M.; O'Connor, J. R.; Paris, D. A.
CORPORATE SOURCE: Sterling-Winthrop Res. Inst. Div., Sterling Drug Inc., Rensselaer, NY, USA
SOURCE: Journal of Dental Research (1977), 56(2), 151-6
CODEN: JDREAF; ISSN: 0022-0345
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(plaque inhibiting activity of, determination of)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 138 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The effectiveness of some topically applied bis-biguanides on exptl. dental caries was tested in albino hamsters infected with Streptococcus mutans and maintained on a high-sucrose diet. Applications of an 11 or 22
mM solution of chlorhexidine digluconate [18472-51-0] once a day produced a
considerable caries reduction When a 2.2 mM solution was applied twice a day,
the effect was proportionally smaller. Of other bis-biguanides tested, chlorhexidine diacetate [56-95-1], chlorhexidine difluoride [38901-23-4], 2-ethylhexylhexidine dichloride **[1715-30-6]**, and
1,3-dimethylpentylhexidine dichloride **[50876-95-4]** gave substantial caries redns. The topical application of the various solns. had no adverse effect on weight gain.
ACCESSION NUMBER: 1976:516649 CAPLUS
DOCUMENT NUMBER: 85:116649
TITLE: The effect of some bis-biguanides on experimental dental caries in the hamster
AUTHOR(S): Emilson, C. G.; Krasse, B.; Rolla, G.
CORPORATE SOURCE: Fac. Odontol., Univ. Goteborg, Goteborg, Swed.
SOURCE: Caries Research (1976), 10(5), 352-62
CODEN: CAREBK; ISSN: 0008-6568
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1715-30-6 50876-95-4**
RL: BIOL (Biological study)
(dental caries prevention by)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 50876-95-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 138 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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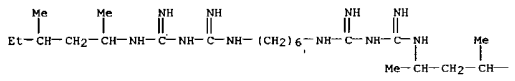

●2 HCl

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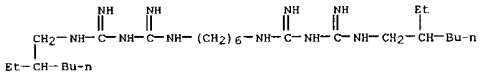
L4 ANSWER 139 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Mouth deodorizing dentifrices contain 0.1-5.0 weight% water-sol amphoretic
surfactants, binders and 0.001-0.1 wt/% 1,6-bisdiguanidinohexanes [RR1NC(:NH)NHC(:NH)NH]2(CH2)6 (I) (R,R1 = aryl or alkyl). E.g., a toothpaste was prepared containing 50.0% Ca phosphate, 2.0% 2-alkyl-N-carboxymethyl-N-hydroxyethylimidazolinebetaine, 0.4% hydroxyethyl cellulose, 0.3% poly(vinyl alc.), 18.0% glycerin, 0.005% chlorhexidine [55-56-1] and adjuvants. A tooth powder contains CaCO3 0.80 Armin Z, 0.005% 1,6-bis(2-ethylhexylbiguanido)hexane [**22573-93-9**] and adjuvants.
ACCESSION NUMBER: 1976:483136 CAPLUS
DOCUMENT NUMBER: 85:83136
TITLE: Deodorants for mouth
INVENTOR(S): Sawamura, Kunio; Tsurumi, Kazue
PATENT ASSIGNEE(S): Lion Dentifrice Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51051530	A2	19760507	JP 1974-124575	19741028

PRIORITY APPLN. INFO.: JP 1974-124575 19741028

IT **22573-93-9**
RL: BIOL (Biological study)
(dentifrice containing, as mouth deodorant)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 140 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Three alkyl bisbiguanides RNHC(:NH)NHC(:NH)NH(CH2)6NHC(:NH)NHC(:NH)NHR (I,
R = 1,5-dimethylhexyl, 1,3-dimethylpentyl, or 2-ethylhexyl) were more effective antibacterial agents against Staphylococcus epidermidis and Corynebacterium acnes than the reference compound 4-chlorhexidine digluconate
[60042-57-1]. The 2-ethylhexyl and 1,5-dimethylhexyl derivs. were the most effective compds. tested. An alicyclic bisbiguanide (I, R = 2-norbornyl) was the least effective agent against S. epidermidis, but it was more active than chlorhexidine against C. acnes.
ACCESSION NUMBER: 1976:472841 CAPLUS
DOCUMENT NUMBER: 85:72841
TITLE: In vitro antibacterial effects of some bis-biguanides on certain bacteria which occur in connection with acne vulgaris
AUTHOR(S): Hegna, Ida K.
CORPORATE SOURCE: Inst. Pharm., Univ. Oslo, Blindern/Oslo, Norway
SOURCE: Meddelelser fra Norsk Farmaceutisk Selskap (1976), 38(1), 34-9
CODEN: MNFSAW; ISSN: 0029-1927
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9 52057-81-5 52057-83-7**
RL: PRP (Properties)
(Corynebacterium and Staphylococcus sensitivity to, chlorhexidine in comparison with)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

RN 52057-81-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

RN 52057-83-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 140 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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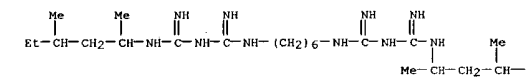

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L4 ANSWER 141 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB OF 3 alkylbisbiguanides (RNHC(:NH)NHC(:NH)NH(CH2)6NHC(:NH)NHC(:NH)NHR) (I)
tested against C. acnes, the 2-ethylhexyl derivative [**22573-93-9**] and the 1,5-dimethylhexyl derivative [**52057-81-5**] showed the highest bactericidal effects and 1,3- dimethylpentyl derivative [**52057-83-7**] was slightly weaker. Chlorhexidine digluconate [18472-51-0] and the alicyclic analogs (I, R = cyclohexylmethyl [**52057-86-0**] or 2-norbornyl [52057-87-1]) had still lower bactericidal activities. However, the 2-norbornyl derivative had the highest bacteriostatic activity in
a diffusion method on blood agar, and the 2-ethylhexyl derivative was the least effective. Nearly all the compds. exerted hemolytic effects, and the bactericidal activities of all bisbiguanides were decreased by the presence ofhorse serum. Bactericidal effects against C. acnes were lowest
in the pH range 6.2-7.0.
ACCESSION NUMBER: 1976:457405 CAPLUS
DOCUMENT NUMBER: 85:57405
TITLE: Antibacterial in vitro effects on Corynebacterium acnes NCTC 737
AUTHOR(S): Hegna, Ida K.
CORPORATE SOURCE: Inst. Pharm., Univ. Oslo, Blindern/Oslo, Norway
SOURCE: Meddelelser fra Norsk Farmaceutisk Selskap (1976), 38(1), 40-7
CODEN: MNFSAW; ISSN: 0029-1927
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9 52057-81-5 52057-83-7 52057-86-0**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(Corynebacterium acnes sensitivity to)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

RN 52057-81-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

RN 52057-83-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-

L4 ANSWER 141 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
3,12-diimino- (9CI) (CA INDEX NAME)

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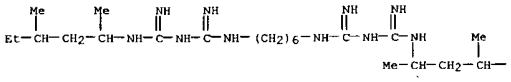

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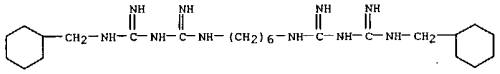
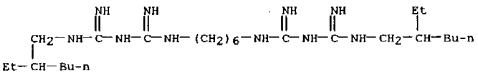
RN 52057-86-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino- (9CI) (CA INDEX NAME)

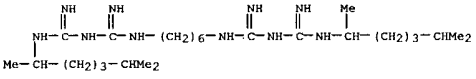


L4 ANSWER 142 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Of 6 bisbiguanides,
Me2CH(CH2)3CHMeNHC(NH)NHC(NH)NH(CH2)6NHC(NH)NHC(NH)NHC HMe(CH2)3CHMe2 I [**52057-81-5**] and its 2-ethylhexyl analog (II) [**22573-93-9**] were the most effective against Staphylococcus and Corynebacterium acnes. I, II and the 1,3-dimethylpentyl analog of I [**52057-83-7**] exhibited bactericidal effects on C. acnes which increased with increasing pH from 7.0 to 9.0. Serum had a reducing effect on the actions of the compds. on the bacteria, especially in the case of II.

ACCESSION NUMBER: 1976:414541 CAPLUS
DOCUMENT NUMBER: 85:14541
TITLE: Antimicrobial effects of some bis-biguanides on certain bacteria which occur in connection with acne vulgaris
AUTHOR(S): Hegna, Ida K.
CORPORATE SOURCE: Inst. Pharmac., Univ. Oslo, Oslo, Norway
SOURCE: Journal of Pharmacy and Pharmacology (1976), 28(3), 261-2
CODEN: JPPMAB; ISSN: 0022-3573
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9 52057-81-5 52057-83-7**
52057-86-0
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial activity of, against Corynebacterium acnes and Staphylococcus epidermidis, acne treatment in relation to)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 52057-81-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 52057-83-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)

L4 ANSWER 142 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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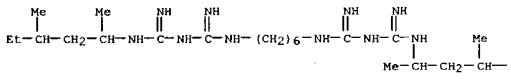

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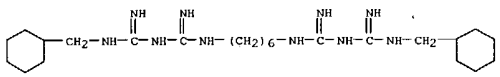
—Et

RN 52057-86-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino- (9CI) (CA INDEX NAME)

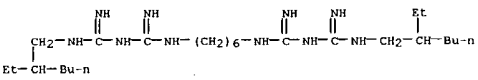


L4 ANSWER 143 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Comps. for topical treatment of acne were prepared from 0.01-0.2% 1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide]-2HCl (I) [**1715-30-6**], a skin penetration agent such as lauryl lactate [6283-92-7] (10-20%), methylpyrrolidone [51013-18-4] (36-41%), Me salicylate [119-36-8] (5-9%), or vitamin A acid [302-79-4] (0.05-0.1), and a solvent. For example, a composition containing 0.01% I, 0.05% vitamin A acid, 35.0% iso-PrOH, and water (to 100%) was prepared by adding a mixture of I in a small amount of the iso-PrOH to a solution of vitamin A acid in iso-PrOH and enough water to dissolve it, and then adding the rest of the water.

ACCESSION NUMBER: 1976:140726 CAPLUS
DOCUMENT NUMBER: 84:140726
TITLE: Topically usable composition against acne vulgaris
INVENTOR(S): Curtis, Stephen N.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2529149	A1	19760122	DE 1975-2529149	19750630
SE 7506731	A	19760102	SE 1975-6731	19750612
NL 7507158	A	19760105	NL 1975-7158	19750616
GB 1470355	A	19770414	GB 1975-26573	19750623
FR 2276815	A1	19760130	FR 1975-19685	19750624
FR 2276815	B1	19790817		
CA 1057662	A1	19790703	CA 1975-230324	19750627
BE 830830	A1	19751230	BE 1975-157839	19750630
ES 439011	A1	19770616	ES 1975-439011	19750630
JP 51029232	A2	19760312	JP 1975-80564	19750701
PRIORITY APPLN. INFO.:			US 1974-484637	19740701

IT **1715-30-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 143 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

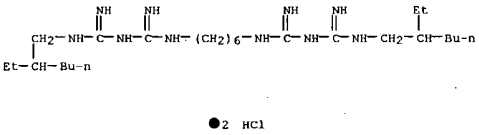
L4 ANSWER 144 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB In young male adults, treatment with an antimicrobial mouthwash containing alexidine-2HCl [**1715-30-6**] was statistically and clin. effective in decreasing plaque scores and plaque weight, and statistically but not clin. effective in decreasing gingivitis scores. No systemic side effects were observed, but an asymptomatic brown tongue stain was observed in about half of the subjects. There was no evidence to suggest that alexidine disturbed the relative composition of the microorganisms in plaque, but there was a suggestion that it decreased the number of microorganisms almost 2-fold when compared with the placebo group.

ACCESSION NUMBER: 1976:54296 CAPLUS
DOCUMENT NUMBER: 84:54296
TITLE: Effect of an antimicrobial mouthwash on dental plaque and gingivitis in young adults
AUTHOR(S): Spolsky, Vladimir W.; Bhatia, Harbans L.; Forsythe, Alan; Levin, Daniel
CORPORATE SOURCE: Sch. Dent., Univ. California, Los Angeles, CA, USA
SOURCE: Journal of Periodontology (1975), 46(11), 685-90
CODEN: JOPRAJ; ISSN: 0022-3492
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **1715-30-6**
RL: BIOL (Biological study)
(mouthwash containing, gingivitis and tooth plaque response to)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 145 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

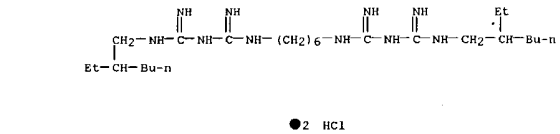
AB The cleaning composition hindered discoloration of dentures and contained chlorhexidine HCl (I) [3697-42-5], chlorhexidine diacetate [56-95-1], 1,6-bis(2-ethylhexyldiguanido)hexane dihydrochloride [**1715-30-6**], or 1,6-bis(4-chlorobenzyldiguanido)hexane dihydrochloride [**57583-52-5**]. Thus, a denture cleaner contained K monopersulfate 25, Na perborate 43, Na tripolyphosphate 20.4, I 0.5, and additives 11.1%.

ACCESSION NUMBER: 1976:19581 CAPLUS
DOCUMENT NUMBER: 84:19581
TITLE: Cleaning composition for dentures
PATENT ASSIGNEE(S): Blendax-Werke R. Schneider und Co., Fed. Rep. Ger.
SOURCE: Austrian, 6 pp.
CODEN: AUXXAK
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
AT 324571	B	19750910	AT 1973-7159		19730816
PRIORITY APPLN. INFO.:			AT 1973-7159	A	19730816

IT **1715-30-6 57583-52-5**
RL: USES (Uses)
(denture cleaners containing)

RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 57583-52-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 145 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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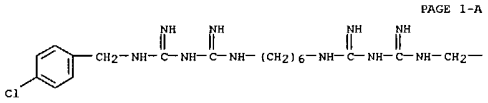

●2 HCl

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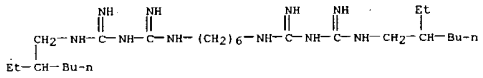
L4 ANSWER 146 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Chlorhexidine [1,6-bis(p-chlorophenylbiguanido)hexane](I) [55-56-1] 1,6-bis(2-ethylhexylbiguanido)hexane (II) [**22573-93-9**], known to inhibit the growth of bacteria, e.g. Lactobacillus acidophilus odontolyticus, and to prevent the formation of dental plaque, have been made the basis of an improved mouthwash. The inclusion of a reducing agent such as gallic acid [149-91-7] or dihydrocoumarin (III) [119-84-6] prevents staining by I and II. Thus a mixture of I-diacetate [56-95-1] 0.093, III 1.5, NaHCO3 0.716, and glycerol 97.69% constitutes a concentrate to be diluted with 2 parts of H2O for use. I and II are also suitable components of toothpaste.

ACCESSION NUMBER: 1975:552362 CAPLUS
DOCUMENT NUMBER: 83:152362
TITLE: Antibacterial oral compositions containing preservative-antioxidants
INVENTOR(S): Nachtigal, Julius H.
PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 3887701	A	19750603	US 1973-411726		19731101
PRIORITY APPLN. INFO.:			US 1973-411726	A	19731101

IT **22573-93-9**
RL: BIOL (Biological study)
(dentifrices containing)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)

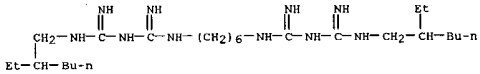


L4 ANSWER 147 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The mouthwash, which gave a feeling of overall freshness and cleanliness to the teeth and mouth, contained 0.01-0.035% weight of a biguanide. E.g., a composition was prepared containing 10% sorbitol 5.00, 95% EtOH 18.18, Alexidine [**22573-93-9**] 0.01, nonoxynol 600 0.50, flavor 0.20, and H2O to 100% weight

ACCESSION NUMBER: 1975:520921 CAPLUS
DOCUMENT NUMBER: 83:120921
TITLE: Germicidal mouthwashes
INVENTOR(S): Lover, Myron J.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Brit., 2 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
GB 1365030	A	19740829	GB 1972-53018		19721116
PRIORITY APPLN. INFO.:			GB 1972-53018	A	19721116

IT **22573-93-9**
RL: BIOL (Biological study)
(in germicidal mouthwash)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 148 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Polymeric biguanides and their salts were used to protect crops in the field and in storage from molds and bacteria. Thus, poly(hexamethylenediguanide-HCl) (I) [27083-27-8], applied to oranges at 1000 or 2000 ppm by dipping, protected them from rotting due to Penicillium digitatum and Alternaria citri approx. as well as did benomyl [17804-35-2]. Only 0.21% of wheat plants exptl. inoculated with Puccinia recondita developed rust when they were previously sprayed with 2 ppm I combined with 1000 ppm of a surfactant (4ml/20 plants), compared to 15.10% of untreated controls. I had low toxicity and was not irritating or allergenic in lab animals.

ACCESSION NUMBER: 1975:509787 CAPLUS
DOCUMENT NUMBER: 83:109787
TITLE: Combatting molds and bacteria
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd., UK
SOURCE: Neth. Appl., 60 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
NL 7410546	A	19750210	NL 1974-10546		19740806
GB 1434040	A	19760428	GB 1973-37203		19740724
ZA 7404822	A	19750827	ZA 1974-4822		19740729
FR 2239942	A1	19750307	FR 1974-27126		19740805
AU 7472008	A1	19760205	AU 1974-72008		19740805
BE 818551	A1	19750206	BE 1974-147345		19740806
DK 7404185	A	19750421	DK 1974-4185		19740806
JP 50048134	A2	19750430	JP 1974-89558		19740806
BR 7406445	A0	19750527	BR 1974-6445		19740806
DE 2437844	A1	19750626	DE 1974-2437844		19740806
PRIORITY APPLN. INFO.:			GB 1973-37203	A	19730806
			GB 1974-18324	A	19740426
			GB 1973-7203	A	19730806

IT **56307-32-5 56307-35-8 56307-36-9 56307-37-0 56307-38-1 56307-42-7 56307-48-3 56307-54-1 56307-55-2 56328-20-2**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal and fungicidal activity of)
RN 56307-32-5 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediylimino-1,2-ethanediylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)

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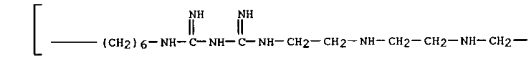

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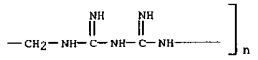
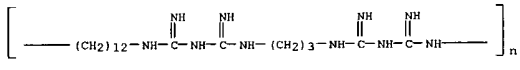
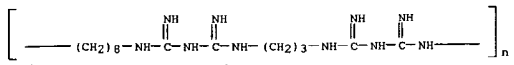


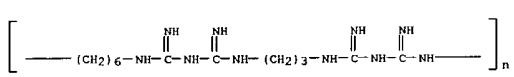
RN 56307-35-8 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,12-dodecanediyl) (9CI) (CA INDEX NAME)



RN 56307-36-9 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,8-octanediyl) (9CI) (CA INDEX NAME)

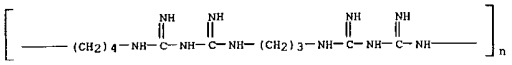


RN 56307-37-0 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)



RN 56307-38-1 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,3-propanediyliminocarbonimidoyliminocarbonimidoylimino-1,4-butanediyl) (9CI)

L4 ANSWER 148 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(CA INDEX NAME)



RN 56307-42-7 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,12-dodecanediyl) (9CI) (CA INDEX NAME)

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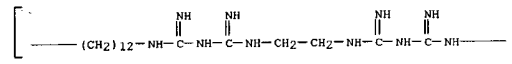

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RN 56307-48-3 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,2-ethanediyliminocarbonimidoyliminocarbonimidoylimino-1,8-octanediyl) (9CI) (CA INDEX NAME)

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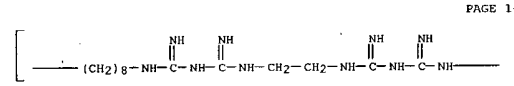

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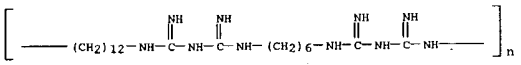
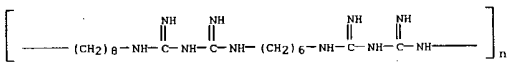
RN 56307-54-1 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,12-dodecanediyl) (9CI) (CA INDEX NAME)

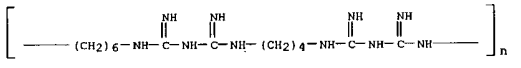
L4 ANSWER 148 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 56307-55-2 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyliminocarbonimidoyliminocarbonimidoylimino-1,8-octanediyl) (9CI) (CA INDEX NAME)



RN 56328-20-2 CAPLUS
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,4-butanediyl-iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)



L4 ANSWER 149 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

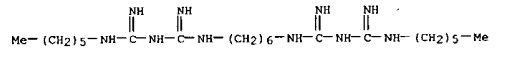
AB Aqueous prepns. contain 0.01-0.05% of 1,1'-hexamethylenebis(5-alkylbiguanide)-2HCl in which alkyl is hexyl, heptyl, octyl or nonyl, e.g., 1,1'-hexamethylenebis(5-hexylbiguanide)-2HCl [18342-69-3].

ACCESSION NUMBER: 1975:433065 CAPLUS
DOCUMENT NUMBER: 83:33065
TITLE: Germ-killing preparation for oral hygiene
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Neth. Appl., 4 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7216800	A	19740613	NL 1972-16800	19721211
PRIORITY APPLN. INFO.:			NL 1972-16800 A	19721211

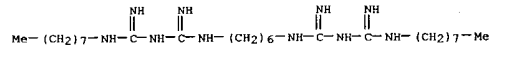
IT **18342-69-3 18342-70-6 18342-74-0 20347-58-4**
RL: BIOL (Biological study)
(bactericide solution containing)

RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

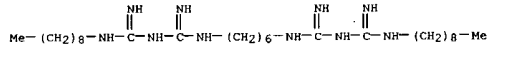
RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

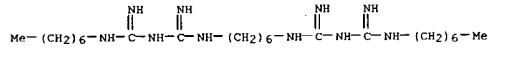
RN 18342-74-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 149 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

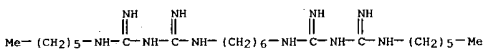


●2 HCl

L4 ANSWER 150 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The bactericide 1,1''-hexamethylenebis(5-hexylbiguanide)-2HCl [**18342-69-3**], and its heptyl [**20347-58-4**], octyl [**18342-70-6**] and nonyl [**18342-74-0**] analogs may be used at 0.01 to 0.05% in formulating mouthwashes.
ACCESSION NUMBER: 1975:433028 CAPLUS
DOCUMENT NUMBER: 83:33028
TITLE: Germicidal composition for mouth washes
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Fr. Demande, 5 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

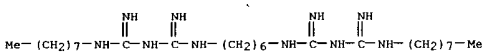
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2207689	A1	19740621	FR 1972-42551	19721130
FR 2207689	B1	19770722		
PRIORITY APPLN. INFO.:			FR 1972-42551 A	19721130

IT **18342-69-3 18342-70-6 18342-74-0**
20347-58-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(bactericide, in mouthwashes)
RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

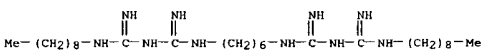
RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

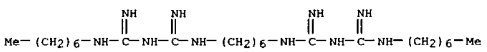
RN 18342-74-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 150 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

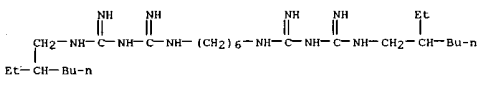


●2 HCl

L4 ANSWER 151 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Cleaning compns. for dentures and of good cleaning and antibacterial properties contained O-releasing compds. 32-68, phosphate sequestrants 22-30, bis(diguanidino)hexane derivs. 0.2-5%, and common additives. Thus,
a denture cleaning tablet consisted of K2SO5 [10361-76-9] 25.0, Na perborate [11138-47-9] 43.0, Na5P3O10 [7758-29-4] 20.4, Na4P2O7 [7722-88-5] 5.0, chlorhexidine-HCl [3697-42-5] 0.5, SiO2 1.5, polyethylene
glycol 1.8, poly(vinylpyrrolidinone) 2.5, and flavor 0.3%.
ACCESSION NUMBER: 1975:415509 CAPLUS
DOCUMENT NUMBER: 83:15509
TITLE: Denture cleaning compositions
INVENTOR(S): Schoedel, Christian
PATENT ASSIGNEE(S): Blendax-Werke R. Schneider und Co., Fed. Rep. Ger.
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2341176	A1	19750306	DE 1973-2341176	19730814
PRIORITY APPLN. INFO.:			DE 1973-2341176	19730814

IT **1715-30-6**
RL: BIOL (Biological study)
(denture cleaning compns. containing)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

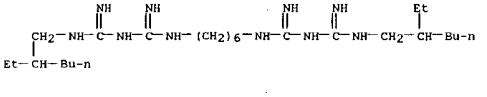


●2 HCl

L4 ANSWER 152 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Formulations were reported for dentifrices and mouthwashes containing alexidine dihydrofluoride [[BuCHEtCH2NHC(:NH)NHC(:NH)NH]2{CH2)6.2HF] (I) [
55006-94-5], which inhibited dental calculus formation and periodontal diseases. Thus, a mouthwash contained I 0.02, glycerol 10.00,
EtOH 12.00, H2O 76.93, peppermint oil 0.05, dye 1.00%.
ACCESSION NUMBER: 1975:175236 CAPLUS
DOCUMENT NUMBER: 82:175236
TITLE: Dentifrices and mouthwashes containing alexidine dihydrofluoride
INVENTOR(S): Lover, Myron J.; Speranza, Joseph P.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

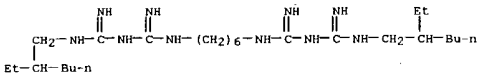
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2428227	A1	19750109	DE 1974-2428227	19740611
DE 2428227	C2	19831229		
US 3887712	A	19750603	US 1973-370481	19730615
NL 7407084	A	19741217	NL 1974-7084	19740527
AU 7469764	A1	19751204	AU 1974-69764	19740604
GB 1436487	A	19760519	GB 1974-25856	19740611
FR 2233040	A1	19750110	FR 1974-20550	19740613
BE 816389	A1	19741216	BE 1974-145474	19740614
ZA 7403812	A	19760128	ZA 1974-3812	19740614
PRIORITY APPLN. INFO.:			US 1973-370481	19730615

IT **55006-94-5**
RL: BIOL (Biological study)
(dentifrices and mouthwashes containing)
RN 55006-94-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrofluoride (9CI) (CA INDEX NAME)



●2 HF

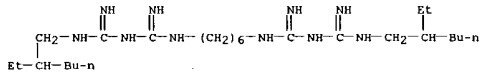
L4 ANSWER 153 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Alexidine (QR 711) [**22573-93-9**] used by volunteers to rinse their mouths once a day for 5 days increased the mean plaque pH in all 4 dentition quadrants: maxillary right 0.40, maxillary left 0.10, mandibular right 0.24, and mandibular left 0.26 units.
ACCESSION NUMBER: 1975:106588 CAPLUS
DOCUMENT NUMBER: 82:106588
TITLE: Effect of daily rinsing with alexidine on supragingival plaque pH
AUTHOR(S): Esposito, E. J.
CORPORATE SOURCE: U. S. Army Inst. Dent. Res., Walter Reed Army Med. Cent., Washington, DC, USA
SOURCE: Journal of Periodontology (1974), 45(11), 833-4
CODEN: JOPRAJ; ISSN: 0022-3492
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BIOL (Biological study)
(tooth plaque pH response to)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 154 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The antisebaceous prepns. contained urea [57-13-6] 10-25, deoxycholic acid (I) [83-44-3] 0.25-0.50, and EtOH 30-45% and optionally 1,6-bis(2-ethylhexylbiguanido)hexane [**22573-93-9**] or an ammonium compound as a bactericide. Thus, 7.50 g Carbopol 934 and 125.0 g urea were added to 2.5 g I in 225.0 ml EtOH, 110 ml H2O, and 62.5 g glycerol and pH 6.35 was adjusted by the addition of .apprx.15 ml NH4OH.
ACCESSION NUMBER: 1975:77112 CAPLUS
DOCUMENT NUMBER: 82:77112
TITLE: Preparations for treatment of acne and seborrhea
INVENTOR(S): Ferrari, Richard A.
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2417872	A1	19741031	DE 1974-2417872	19740411
US 3860712	A	19750114	US 1973-351249	19730416
GB 1430324	A	19760331	GB 1974-14644	19740402
CA 1014468	A1	19770726	CA 1974-197539	19740411
FR 2225169	A1	19741108	FR 1974-13221	19740416
PRIORITY APPLN. INFO.:			US 1973-351249	19730416

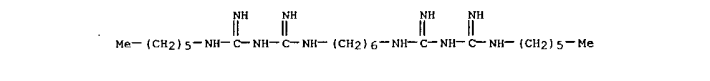
IT **22573-93-9**
RL: BIOL (Biological study)
(acne and seborrhea treatment with compns. containing)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 155 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Disinfectant mouthwash prepns. containing the hexamethylenebisbiguanides [RNHC(:NH)NHC(:NH)NH]2(CH2)6.2HCl (I, R =C6-9-alkyl) were reported. Thus, a preferred preparation contained 70% sorbitol 5.00, 95% EtOH 18.18, I 0.01, nonoxynol 600 0.50, flavor 0.20, and H2O balance to 100].
ACCESSION NUMBER: 1974:496443 CAPLUS
DOCUMENT NUMBER: 81:96443
TITLE: Disinfectant mouthwash
INVENTOR(S): Lover, Myron J.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

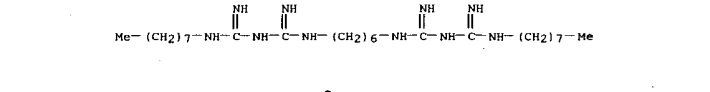
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2257315	A1	19740530	DE 1972-2257315	19721122
PRIORITY APPLN. INFO.:			DE 1972-2257315	19721122

IT **18342-69-3 18342-70-6 18342-74-0 20347-58-4**
RL: BIOL (Biological study)
(disinfectant mouthwash)
RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

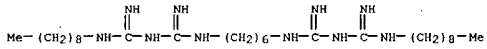
RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

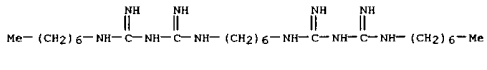
RN 18342-74-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 155 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



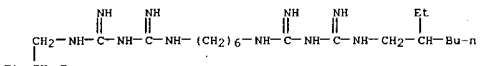
●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

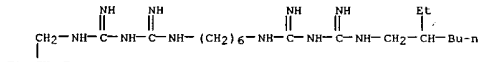


●2 HCl

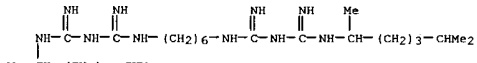
L4 ANSWER 156 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Plaque formation on the proximal surfaces of removable gold crowns was significantly decreased by rinsing with chlorhexidine gluconate (I) [14007-07-9] and Alexidine [**22573-93-9**], but not Vancocine-HCl [1404-93-9], Hextril [141-94-6], or Listerine [51273-66-6].
ACCESSION NUMBER: 1974:421131 CAPLUS
DOCUMENT NUMBER: 81:21131
TITLE: Antimicrobial rinses and proximal plaque on removable gold crowns
AUTHOR(S): Muehlemann, H. R.; Huelss, D.; Steiner, E.
CORPORATE SOURCE: Dent. Inst., Univ. Zurich, Zurich, Switz.
SOURCE: Helvetica Odontologica Acta (1973), 17(2), 89-95
CODEN: HONAA4; ISSN: 0440-6796
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9**
RL: BIOL (Biological study)
(tooth plaque formation inhibition by)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



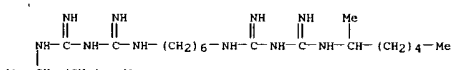
L4 ANSWER 157 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Six alkyl, 4 alicyclic, and 2 arylbis-biguanide (I) derivs. [RR1NC(:NH)NHC(:NH)NH]2(CH2)6 showed plaque inhibition comparable to that of chlorhexidine in humans. The affinity of these compds. for bovine albumin increased with increasing pH of the solution, suggesting that the hydrophilic-lipophilic balance of the mols. influences their plaque-inhibiting capacity via antimicrobial activity. Most of these compds. exhibited high activity against Gram-pos. bacteria and less activity against Escherichia coli.
ACCESSION NUMBER: 1974:55883 CAPLUS
DOCUMENT NUMBER: 80:55883
TITLE: Effect on dental plaque formation and some in vitro properties of twelve bis-(biguanides)
AUTHOR(S): Gjermo, P.; Rolla, G.; Arskaug, L.
CORPORATE SOURCE: Dental Fac., Univ. Oslo, Oslo, Norway
SOURCE: Journal of Periodontal Research, Supplement (1973), No. 12, 81-8
CODEN: JPRSB6; ISSN: 0075-4331
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **22573-93-9 52057-81-5 52057-82-6 52057-83-7 52057-84-8 52057-86-0**
RL: BIOL (Biological study)
(tooth plaque inhibition by)
RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



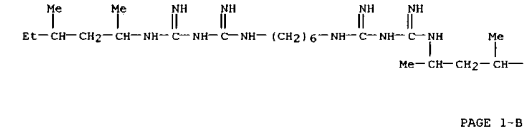
RN 52057-81-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



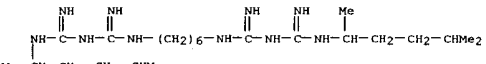
RN 52057-82-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylhexyl)- (9CI) (CA INDEX NAME)



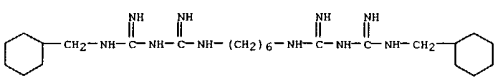
L4 ANSWER 157 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 52057-83-7 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)



RN 52057-84-8 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,4-dimethylpentyl)-3,12-diimino- (9CI) (CA INDEX NAME)



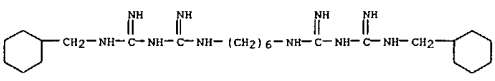
RN 52057-86-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino- (9CI) (CA INDEX NAME)



L4 ANSWER 158 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB Eight R1NRC(:NH)NHC(:NH)-NH(CH2)6NHC(:NH)NHC(:NH)NRR1.2HCl [r = H; R1 = e.g. Me2CH(CH2)3CHMe, cyclohexylmethyl, 1-adamantyl, or 2-norbornyl; or NRR1 = 3-azabicyclo[3.2.2]non-3-yl], used as bactericides, especially in disinfectants and dentifrices as plaque inhibitors, were prepared by reaction of NCNHC(:NH)NH-(CH2)6NHC(:NH)NHCN with R1NHR or ofH2N(CH2)6 NH2 with R1NRC(:NH)NHCN.
ACCESSION NUMBER: 1974:14589 CAPLUS
DOCUMENT NUMBER: 80:14589
TITLE: Bactericidal hexamethylenebis(biguanides)
INVENTOR(S): Gunderson, Helge G.
PATENT ASSIGNEE(S): Aktieselskapet Farmaceutisk Industri
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

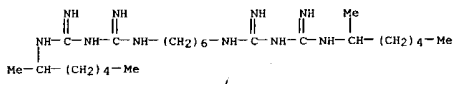
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2313020	A1	19731025	DE 1973-2313020	19730315
NO 135634	B	19770124	NO 1972-864	19720316
GB 1398058	A	19750618	GB 1973-12457	19730315
JP 49025134	A2	19740306	JP 1973-30745	19730316
SE 403612	C	19781207	SE 1973-3733	19730316
DK 7500224	A	19750804	DK 1975-224	19750124
DK 134986	B	19770221		
PRIORITY APPLN. INFO.:			NO 1972-864	19720316
			DK 1973-1423	19730315

IT **50876-92-1P 50876-94-3P 50876-95-4P 50876-96-5P 51032-06-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 50876-92-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(cyclohexylmethyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



RN 50876-94-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-bis(1-methylhexyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 158 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

RN 50876-95-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,3-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

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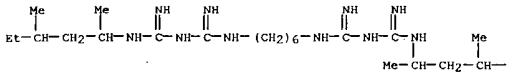
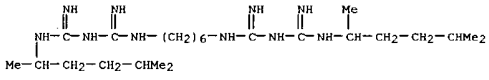


●2 HCl

PAGE 1-B

—Et

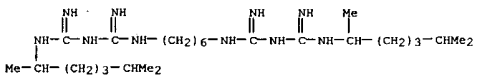
RN 50876-96-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,4-dimethylpentyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 51032-06-5 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(1,5-dimethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 158 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

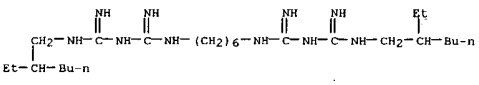
L4 ANSWER 159 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB About 10 [RNHC(:NH)NHC(:NH)NH]2Q [I, Q = e.g. (CH2)6; R = e.g. CH2CHEtBu] were useful in compns. for acne treatment. Thus, an acne lotion contained EtOH 45, salicylic acid 0.5, I.2HCl [Q = (CH2)6, R = CH2CHEtBu] 0.1, water 54.4%, and perfumes and colors.

ACCESSION NUMBER: 1973:470235 CAPLUS
DOCUMENT NUMBER: 79:70235
TITLE: Biguanides in compositions for acne treatment
INVENTOR(S): Lover, Myron J.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2263130	A1	19730628	DE 1972-2263130	19721222
NL 7216738	A	19730626	NL 1972-16738	19721208
AU 7249962	A1	19740613	AU 1972-49962	19721212
CA 991081	A1	19760615	CA 1972-159142	19721215
GB 1401518	A	19750730	GB 1972-58384	19721218
FR 2164802	A1	19730803	FR 1972-45672	19721221
ZA 7209031	A	19740828	ZA 1972-9031	19721221
BE 793229	A1	19730622	BE 1972-125734	19721222
PRIORITY APPLN. INFO.:			US 1971-211698	19711223

IT **1715-30-6**
RL: BIOL (Biological study)
(acne treatment with)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 160 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Salts of bisbiguanides with sequestering amino acids showed improved water solubility and increased bactericidal activity compared with the free bases. Thus, N-(hydroxyethyl)ethylenediaminetriacetic acid chlorhexidine salt (I) [40497-97-0], dissolved in water with aid of cetyltrimethylammonium bromide [57-09-0], was bactericidal toward Pseudomonas aeruginosa at 90 ppm. The salts may be used as disinfectants or applied topically, orally, perlingually, or rectally.

ACCESSION NUMBER: 1973:155411 CAPLUS
DOCUMENT NUMBER: 78:155411
TITLE: Bactericidal bisbiguanide salts
INVENTOR(S): Stephenson, Ronald Arthur; Laursen, Bente Lissy; Mattson, Ove Henning
PATENT ASSIGNEE(S): Kemanord AB
SOURCE: Ger. Offen., 97 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2223766	A	19721214	DE 1972-2223766	19720516
SE 370003	B	19740930	SE 1971-6431	19710518
ZA 7203225	A	19730328	ZA 1972-3225	19720512
FI 58423	B	19801031	FI 1972-1371	19720515
FI 58423	C	19810210		
BE 783598	A1	19720918	BE 1972-117586	19720517
NL 7206762	A	19721121	NL 1972-6762	19720518
FR 2157775	A1	19730608	FR 1972-17941	19720518
GB 1381361	A	19750122	GB 1972-23331	19720518
US 3888947	A	19750610	US 1972-254440	19720518
CA 1003750	A1	19770118	CA 1972-142666	19720518
JP 59011562	B4	19840316	JP 1972-49508	19720518
PRIORITY APPLN. INFO.:			SE 1971-6431	19710518

IT **41633-09-4**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericide)
RN 41633-09-4 CAPLUS
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, compd. with 3,12-diimino-N,N''-bis[(4-methylphenyl)thio]-2,4,11,13-tetraazatetradecanediimidamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 48233-11-0
CMF C24 H36 N10 S2

L4 ANSWER 160 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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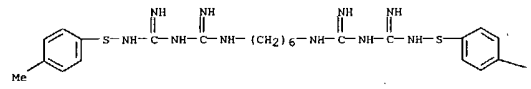
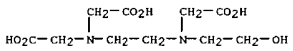


PAGE 1-B

CM 2

CRN 150-39-0
CMF C10 H18 N2 O7



L4 ANSWER 161 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compound (I) and its tetrahydrochloride and digluconate salts were used as non- or only slightly discoloring tartar deposit inhibitors in dentifrices and mouthwashes. Thus, I.4HCl 0.2, Cremophor RH 40 0.6, menthol 0.01, aniseed oil 0.03, clove oil 0.02, cassia oil 0.01, E.S. Carmoisin W.S. 0.0005, and H2O 99.13 parts gave a tartar-deposit-inhibiting mouthwash.

ACCESSION NUMBER: 1973:33814 CAPLUS
DOCUMENT NUMBER: 78:33814
TITLE: 1,6-Bis[(4-chlorobenzyl)biguanido]hexane in dentifrices
INVENTOR(S): Bird, Margaret Ellen; Senior, Norman
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2160969	A	19720629	DE 1971-2160969	19711208
ZA 7107665	A	19720830	ZA 1971-7665	19711115
AU 7136031	A1	19730531	AU 1971-36031	19711123
NL 7116776	A	19720612	NL 1971-16776	19711207
FR 2117920	A5	19720728	FR 1971-43856	19711207
FR 2117920	B3	19740823		
BE 776425	A1	19720608	BE 1971-111442	19711208

PRIORITY APPLN. INFO.: GB 1970-58271 19701208

IT **39762-17-9 39762-18-0 39762-19-1**
RL: BIOL (Biological study)
(dentifrices)

RN 39762-17-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino- (9CI) (CA INDEX NAME)

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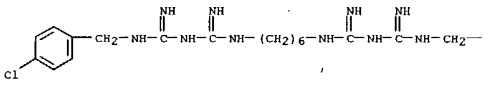

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RN 39762-18-0 CAPLUS

L4 ANSWER 161 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN D-Gluconic acid, compd. with N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 39762-17-9
CMF C24 H34 Cl2 N10

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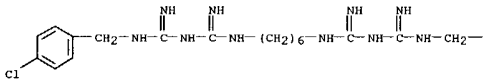

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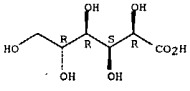
CM 2

CRN 526-95-4
CMF C6 H12 O7

Absolute stereochemistry.



RN 39762-19-1 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino-, tetrahydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 161 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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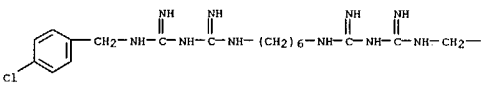


●4 HCl

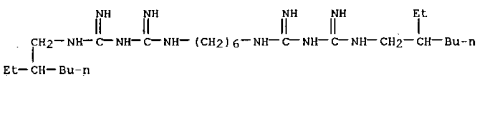
PAGE 1-B

L4 ANSWER 162 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
GI For diagram(s), see printed CA Issue.
AB A composition effective against Staphylococcus aureus and Escherichia coli
consists of .02 mg % 1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide]-2HCl [Me(CH2)3CH-(Et)CH2NHC(:NH)NHC(:NH)NH]2(CH2)6] (I) and .0.25 mg % 4-chloro-2-hydroxyphenyl 2,4-dichlorophenyl ether (II) and an inert pharmaceutical diluent. For example, an oral antiseptic is made by combining .02% I, .025% II, 1 ml EtOH, 11 mg Na saccharin, 110 mg Na cyclamate, 0.1 mg coloring matter and H2O to 100 ml. Ten mL is used as a gargle.

ACCESSION NUMBER: 1972:144841 CAPLUS
DOCUMENT NUMBER: 76:144841
TITLE: Antimicrobial compositions containing 1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide] dihydrochloride and 4-chloro-2-hydroxyphenyl 2,4-dichlorophenyl ether
INVENTOR(S): McNamara, Thomas F.; Malakoff, Meyer
PATENT ASSIGNEE(S): Warner-Lambert Co.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3639632	A	19720201	US 1970-48552	19700622
PRIORITY APPLN. INFO.:			US 1970-48552 A	19700622

IT **1715-30-6**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericide with chlorohydroxyphenyl dichlorophenyl ether)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

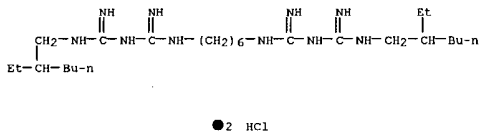
L4 ANSWER 163 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 163 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB The title compound was used in 0.001-1% concns. in tooth paste, chewing gum, and mouth washes and together with dextranase and Na hexametaphosphate to remove tartar and dental films.

ACCESSION NUMBER: 1970:448552 CAPLUS
DOCUMENT NUMBER: 73:48552
TITLE: 1,6-Bis[5-(2-ethylhexyl)biguanido]hexane dihydrochloride for removing tartar
INVENTOR(S): Block, Philip L.; Howe, Eugene E.; Lover, Myron J.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Ger. Offen., 11 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1964196	A	19700625	DE 1969-1964196	19691222
DE 1964196	B2	19770224		
US 3562385	A	19710209	US 1968-786868	19681223
NL 6917408	A	19700625	NL 1969-17408	19691119
IL 33491	A1	19730531	IL 1969-33491	19691208
FI 50052	B	19750901	FI 1969-3573	19691209
SE 356681	B	19730604	SE 1969-17486	19691218
JP 49000496	B4	19740108	JP 1969-101577	19691218
GB 1251739	A	19711027	GB 1969-1251739	19691219
BR 6915424	A0	19730320	BR 1969-215424	19691219
BE 743509	A	19700622	BE 1969-743509	19691222
FR 2026931	A5	19700925	FR 1969-44470	19691222
FR 2026931	B1	19730713		
ZA 6908863	A	19710728	ZA 1969-8863	19691222
DK 124106	B	19720918	DK 1969-6779	19691222
NO 131408	B	19750217	NO 1969-5065	19691222
AT 303261	B	19721127	AT 1969-12012	19691223
CH 547636	A	19740411	CH 1969-19167	19691223
PRIORITY APPLN. INFO.:			US 1968-786868	19681223

IT **1715-30-6**
RL: BIOL (Biological study)
(dental cleaning prepns.)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



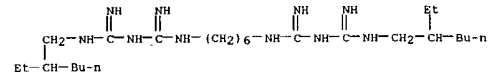
●2 HCl

L4 ANSWER 164 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN
AB 1,1'-Hexamethylenebis(5-hexylbiguanidine) (I) is prepared by heating and stirring a mixture of 0.1 mole 1,1'-hexamethylenebis(3-cyanoguanidine) and 0.2 mole n-hexylamine-HCl at 150-1° for 4 hrs. A clear melt first forms then solidifies after 3 hrs. to give I.HCl, m. 193.7-6.1°. Free I is obtained by dissolving I.HCl in EtOH and adding a solution containing 0.2 mole NaOH and diluting to a 5-fold volume with H2O. Similarly prepared were
1,1'-hexamethylenebis(5-decylbiguanide), m. 180-3°;
1,1'-hexamethylenebis(5-nonylbiguanide), m. 184-6°;
1,1'-hexamethylenebis(3-hexylguanidine), m. 161-4°;
1,1'-hexamethylenebis(3-octylguanidine), m. 173-6°;
1,1'-hexamethylenebis(3-decylguanidine), m. 184-6°;
1,1'-hexamethylenebis(5-n-heptylbiguanide), m. 187.6-91.6°;
1,1'-hexamethylenebis(5-n-octylbiguanide), m. 185.4°;
1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide], m. 220.1-3.4°;
1,1'-(p-phenylene)-bis(5-n-octylbiguanide), m. 250.8-2.8°;
1,1'-hexamethylenebis(5-dodecylbiguanide), m. 189.8-93.8°; Co complex of 1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide], m. >300° (decomposition). The title compds. are useful as fungicides and bactericides.

ACCESSION NUMBER: 1968:39147 CAPLUS
DOCUMENT NUMBER: 68:39147
TITLE: Bisbiguanides and bisguanidines as germicides
INVENTOR(S): Cutler, Royal A.; Schalit, Samuel
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: Fr., 12 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

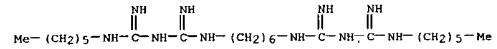
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1463818		19661230		
DE 1493210			DE	
GB 1095902			GB	
US 3468898		19690000	US	
PRIORITY APPLN. INFO.:			US	19640409

IT **1715-30-6P 18342-69-3P 18342-70-6P 18342-72-8P 18342-73-9P 18342-74-0P 20347-58-4P 22573-93-9DP**, Biguanide, 1,1'-hexamethylenebis[5-(2-ethylhexyl)-, cobalt complex
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 1715-30-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



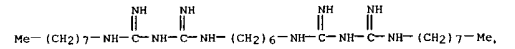
●2 HCl

RN 18342-69-3 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-dihexyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



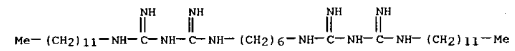
●2 HCl

RN 18342-70-6 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dioctyl-, dihydrochloride (9CI) (CA INDEX NAME)



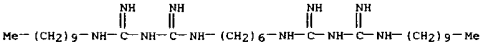
●2 HCl

RN 18342-72-8 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-dodecyl-, dihydrochloride (8CI) (CA INDEX NAME)



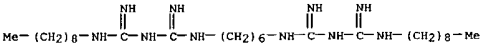
●2 HCl

RN 18342-73-9 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-decyl-, dihydrochloride (8CI) (CA INDEX NAME)



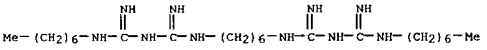
●2 HCl

RN 18342-74-0 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, 3,12-diimino-N,N''-dinonyl-, dihydrochloride (9CI) (CA INDEX NAME)



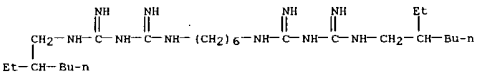
●2 HCl

RN 20347-58-4 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-diheptyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 22573-93-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino- (9CI) (CA INDEX NAME)



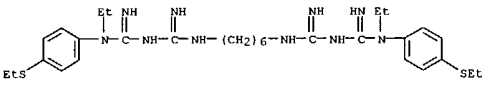
GI For diagram(s), see printed CA Issue.

AB The title compds. (Ia), in which CnH2n was a bivalent alkylene bridge in which the free valence bonds were on two different C's and n was 2 to 12, were prepared by heating 1,1'-(alkylene)bis(3-cyanoguanidine) with an arylamine in an inert diluent or by heating the acid-addition salt of an alkylenediamine with 2 molar proportions of 1-aryl-3-cyanoguanidine. Acid addition salts of these compds. were also prepared The salts and bases exhibited antibacterial and antifungal properties. The cyanoguanidines were prepared by heating the appropriate amine with Na dicyanamide. Thus, refluxing a mixture of 22 g. 1,1'-hexamethylenebis(3-cyanoguanidine) and 33 g. 4-methylthioaniline-HCl in 290 ml. 2-ethoxyethanol 2 hrs., chilling, and filtering gave 32 g. 1,1'-hexamethylenebis{5-(4-methylthiophenyl)biguanide}-2HCl (I), m. 247-8° (aqueous HOAc). Addition of NaOH to a solution of I gave 1,1'-hexamethylenebis[5-(4-methylthiophenyl)biguanide] (II), m. 169-72°. Also prepared were II diacetate, m. 91-7°, and the Amberlite XE-66 salt of II, m. above 300°. To a warmed mixture of 7.55 g. 4-methylthioaniline and 6.09 g. KN(CN)2 was added concentrated HCl and the mixture heated at 80° 15 min. and filtered to give after purification 0.9 g. 1-(4-methylthiophenyl)-3-cyanoguanidine (III), m. 210-12°. Heating III, hexamethylenediamine-2HCl, and PhNO2 at 150-60° 6 hrs. gave I. Similarly prepared were the following Ia (R, R1, R2, n, and m.p. given): MeSO2, H, H, 6, - (di-HCl salt-H2O softened 158° with no definite m.p.); EtS, H, H, 6, 147-9° (di-HCl salt m. 236-8°; di-dl-lactate m. 92-9°; di(10-undecylenate) m. 68-80°; diacetate m. 165-7°; di(ethanesulfonate) m. 175-80°; di(methanesulfonate) m. 80 to 150°; di(cyclohexanesulfamate) m. 186°; bis{2,2'-thiobis(4,6-dichlorophenol)} salt m. 95-9°); EtS(O), H, H, 6, - (di-HCl salt m. 244-5°); EtSO2, H, H, 6, 197-8°; PrS, H, H, 6, 124-33° (di-HCl salt m. 238-40°; di-dl-lactate m. 97-105°; diacetate m. 190-5°); PrSO2, H, H, 6, 200-1°; BuS, H, H, 6, 107-9° (di-HCl salt m. 251-3°; di-dl-lactate m. 130-3°); BuSO2, H, H, 6, 183-5°; n-C5H11S, H, H, 6, - (di-HCl salt m. 242-6°); n-hexylthio, H, H, 6, - (di-HCl salt m. 235-7°); MeS, Cl, H, 6, 160-1° (di-HCl salt m. 222-5°; dilactate di(2-propanolate) m. 103-8°); EtS, Cl, H, 6, - (di-HCl salt m. 214-15°); PrS, Cl, H, 6, - (di-HCl salt m. 226-8°); p-O2NC6H4S, H, H, 6, - (di-HCl salt m. 257-60°); p-O2NC6H4SO2, H, H, 6, - (di-HCl salt m. 220-30°); p-H2NC6H4S, H, H, 6, - (di-HCl salt m. 244-7° (decomposition and shrinking at 160°)]; MeS, H, H, 10, - (di-HCl salt m. 202-4°); EtS, H, Et, 6, -(di-HCl salt m. 194-6°); BuS, H, H, 3, - (di-HCl salt m. 114-15°); n-C5H11SO2, H, H, 6, 176-7°; n-hexylsulfonyl, H, H, 6, 162-6°. Many other examples were cited but all were without phys. consts.

ACCESSION NUMBER: 1966:507853 CAPLUS
DOCUMENT NUMBER: 65:107853
ORIGINAL REFERENCE NO.: 65:20063h,20064a-e
TITLE: 1,1'-(Alkylene)bis(5-arylbiguanides)
INVENTOR(S): Cutler, Royal A.; Schalit, Samuel
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: 18 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3272863		19660913	US	19640327

IT **10556-62-4**, Biguanide, 1,1'-hexamethylenebis[5-ethyl-5-[p-(ethylthio)phenyl]-, dihydrochloride
(preparation of)
RN 10556-62-4 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-ethyl-5-[p-(ethylthio)phenyl]- (8CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 166 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

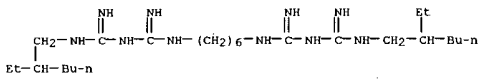
AB Skin substantivity of alkyldimethylbenzylammonium saccharate, 1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide]2HCl, 4-amino-1-laurylquinaldinium acetate monohydrate (I), and 1-hexadecylpyridinium chloride (II) was studied by using calf-skin disks. In the bacteriostatic and bacterial test there was no significant difference in the antimicrobial activity of the 4 test compds. All 4 compds. were substantive to the skin tissue and II and I had a greater avidity for the skin than either of the other 2 compds.

ACCESSION NUMBER: 1965:483372 CAPLUS
DOCUMENT NUMBER: 63:83372
ORIGINAL REFERENCE NO.: 63:15407g-h
TITLE: Skin substantivity as a criterion in the evaluation of antimicrobials
AUTHOR(S): McNamara, Thomas F.; Steinbach, Marianne I.; Schwartz, Benjamin S.
CORPORATE SOURCE: Warner-Lambert Res. Inst., Morris Plains, NJ
SOURCE: Journal of the Society of Cosmetic Chemists (1965), 16(9), 499-506
CODEN: JSCCA5; ISSN: 0037-9832
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **1715-30-6**, Biguanide, 1,1'-hexamethylenebis[5-(2-ethylhexyl)-, dihydrochloride
(absorption by skin, bactericidal action and)

RN 1715-30-6 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis(2-ethylhexyl)-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 167 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compns. contain 1 or more salts of bis(biguanides) of the general formula AXN(R)[C(:NH)NH]2(CH2)n[NHC(:NH)]2N(R')X'A (Ia), in which A is a phenyl group which may be substituted by alkyl, alkoxy, or NO2 groups or halogen atoms, X and X' are a direct linkage or an alkylene radical of ≤ 3 C atoms, R and R' are H or an alkyl or aralkyl radical, n is 2-12, and the (CH2)n chain may be interrupted by O or aromatic nuclei, and ≥ 1 solid diluent, such as lactose (I) or sucrose (II) and, optionally, one or more surface-active agents. Thus, a uniform powder containing 20 parts Ia diacetate (III) (A = p-ClC6H4, X and X' = direct linkage, R and R' = H, and n = 6) in 80 parts I readily dissolves in water to provide a bactericidal solution II (5 parts) in 10 parts water is added with stirring to a mixture of 20 parts III, 10 parts of the condensation product of octyl-cresol with 8-10 mole proportions of ethylene oxide, and 65 parts I. The mixture is passed through a sieve, dried, and passed through another sieve yielding smooth, friable granules which readily dissolve in water to yield a bactericidal solution Cf. Brit. 710,105; C.A. 50, 1082h; 52, 11921e.

ACCESSION NUMBER: 1959:53207 CAPLUS
DOCUMENT NUMBER: 53:53207
ORIGINAL REFERENCE NO.: 53:9585d-f
TITLE: Solid pharmaceutical compositions
INVENTOR(S): Dwight, Joseph S.
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

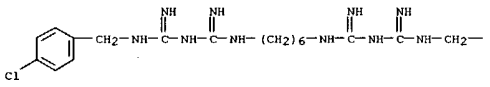
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 807683		19590121	GB	

IT **57583-52-5**, Biguanide, 1,1'-hexamethylenebis[5-p-chlorobenzyl-, dihydrochloride
(powders and tablets containing)

RN 57583-52-5 CAPLUS

CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[(4-chlorophenyl)methyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

L4 ANSWER 167 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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L4 ANSWER 168 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Bisbiguanides, [RR'NC(:NH)NHC(:NH)NH]2(CH2)n (Ia), possessing antimicrobial activity are prepared by heating the bisdicyandiamide with an aralkylamine hydrochloride at 140-60°, or a polymethylenediamine hydrochloride with an aralkyl dicyandiamide. Thus, 5 g. hexamethylenebis(dicyandiamide) (I) is heated 2.5 hrs. at 140-50° with 5.74 g. PhCH2NH2.HCl, the product dissolved in 40 g. MeOH at 60°, and treated with HCl in Et2O until acidic to Congo red, precipitating 1,6-bis(N1-benzyl-N5-diguanido)hexane-4HCl, m. 234-6°. Similarly prepared were Ia (R, R', n, and m.p. given): H, PhCH2CH2.2HCl, 6, 194-8°; Me, PhCH2.2HCl, 6, 169-72°; H, 3,4-Cl2C6H3CH2.2HCl, 6, 230-6°; H, 2-ClC6H4CH2.2HCl, 6, 197-200°; H, 2,6-Cl2C6H3CH2.2HCl, 6, 234-7°; H, p-MeOC6H4CH2CH2.2HCl, 6, 197-200°; H, PhCH2CHMe.2HCl, 6, 230-2°; H, 4-O2NC6H4CH2.2HCl, 6, 150-4°; H, 3-ClC6H4CH2.4HCl, 6, 218-21°; H, 2,4-Cl2C6H3CH2.4HCl, 6, 204-7°; H, 4-MeC6H4CH2.2HCl.2H2O, 6, 211-16°; H, 2,4,5-Cl3C6H2CH2.4HCl, 6, 207-10°; H, 4-ClC6H4CHMe.2HCl, 6, 202-4°. (RR'NHC(:NH)NHC(:NH)NH)2(CH2)3O(CH2)3 (R, R', and m.p. given): H, 4-ClC6H4CH2.4HCl, 223-5°; H, PhCH2.2HCl, 198-9°. Also prepared was the m-xylene analog-2HCl of Ia (R = H, R' = 4-ClC6H4CH2) from m-xylene-ω,ω'-bis(dicyandiamide), m. 200-3°. p-Chlorobenzyldicyandiamide dihydrochloride (III) (2.09 g.) heated at 150-60° 3 hrs. with 1.23 g. decamethylenediamine-2HCl gives on crystallization from hot H2O Ia.2HCl (R = H, R' = 4-ClC6H4CH2, n = 10), m. 180-2°. Similarly prepared are Ia (data as above): H, 4-ClC6H4CH2.2HCl, 6, 194-7°; H, 4-ClC6H4CH2.2HCl, 12, 198-201°; H, PhCH2.4HCl, 10, 149-55°; H, PhCH2.2HCl, 12, 219-22°. Reaction may proceed in the presence of CuCl2 or CuSO4. E.g., 1.95 g. ethylenebisdicyandiamide and 4.5 g. benzylamine is refluxed 4.5 hrs. with 25 cc. 20% aqueous CuSO4.5H2O and 10 g. β-ethoxyethanol treatment of the solid product with aqueous NH3 and addition of aqueous HCl yields Ia.2HCl (R = H, R' = PhCH2, n = 2), m. 238-9°.

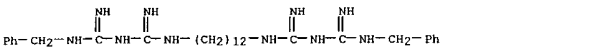
ACCESSION NUMBER: 1958:66111 CAPLUS
DOCUMENT NUMBER: 52:66111
ORIGINAL REFERENCE NO.: 52:11921e-i
TITLE: Bisbiguanides
INVENTOR(S): Birtwell, Stanley; Rose, Francis L.
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 785937		19571106	GB	

IT **103331-11-9**, Biguanide, 1,1'-dodecamethylenebis[5-benzyl-, tetrahydrochloride **112323-60-1**, Biguanide, 1,1'-ethylenebis[5-benzyl-, dihydrochloride **112551-47-0**, Biguanide, 1,1'-hexamethylenebis[5-(2,4,5-trichlorobenzyl)-, tetrahydrochloride **113796-41-1**, Biguanide, 1,1'-hexamethylenebis[5-p-nitrobenzyl-, dihydrochloride **114398-72-0**, Biguanide, 1,1'-hexamethylenebis[5-benzyl-5-methyl-, dihydrochloride **114398-73-1**, Biguanide, 1,1'-hexamethylenebis[5-p-methylbenzyl-, dihydrochloride

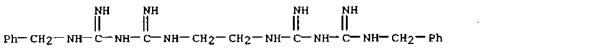
114398-74-2, Biguanide, 1,1'-hexamethylenebis[5-phenethyl-, dihydrochloride **114598-63-9**, Biguanide, 1,1'-hexamethylenebis[5-(p-chloro-α-methylbenzyl)-, dihydrochloride **114909-31-8**, Biguanide, 1,1'-decamethylenebis[5-p-chlorobenzyl-, dihydrochloride **115760-23-1**, Biguanide, 1,1'-decamethylenebis[5-benzyl-, tetrahydrochloride **115760-24-2**, Biguanide, 1,1'-hexamethylenebis[5-(α-methylphenethyl)-, dihydrochloride **115760-25-3**, Biguanide, 1,1'-hexamethylenebis[5-(p-methoxyphenethyl)-, dihydrochloride **115916-61-5**, Biguanide, 1,1'-dodecamethylenebis[5-p-chlorobenzyl-, dihydrochloride
(prepn. of)

RN 103331-11-9 CAPLUS
CN 2,4,17,19-Tetraazaeicosanediimidamide, 3,18-diimino-N,N''-bis(phenylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

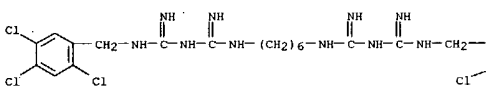
RN 112323-60-1 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

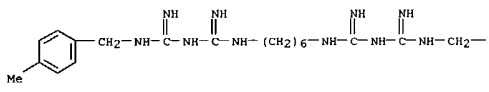
RN 112551-47-0 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-(2,4,5-trichlorobenzyl)-, tetrahydrochloride (6CI) (CA INDEX NAME)

PAGE 1-A



●4 HCl

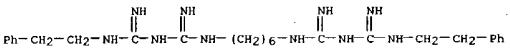
PAGE 1-A



●2 HCl

PAGE 1-B

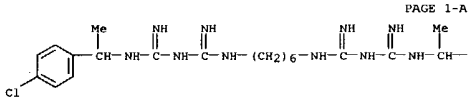
RN 114398-74-2 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-phenethyl-, dihydrochloride (6CI) (CA INDEX NAME)



●2 HCl

RN 114598-63-9 CAPLUS
CN 2,4,11,13-Tetraazatetradecanediimidamide, N,N''-bis[1-(4-chlorophenyl)ethyl]-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

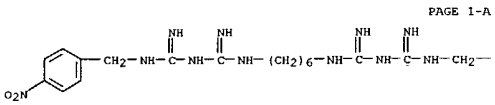


●2 HCl

PAGE 1-B

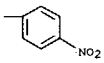
RN 113796-41-1 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-p-nitrobenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

PAGE 1-A

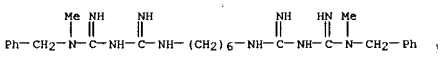


●2 HCl

PAGE 1-B



RN 114398-72-0 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-benzyl-5-methyl-, dihydrochloride (6CI)
(CA INDEX NAME)



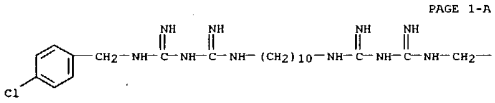
●2 HCl

RN 114398-73-1 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-p-methylbenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

PAGE 1-B

RN 114909-31-8 CAPLUS
CN Biguanide, 1,1'-decamethylenebis[5-p-chlorobenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

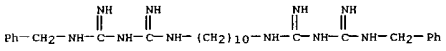
PAGE 1-A



●2 HCl

PAGE 1-B

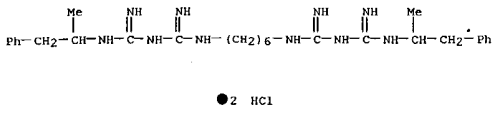
RN 115760-23-1 CAPLUS
CN Biguanide, 1,1'-decamethylenebis[5-benzyl-, tetrahydrochloride (6CI) (CA INDEX NAME)



●4 HCl

RN 115760-24-2 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-(α-methylphenethyl)-, dihydrochloride (6CI) (CA INDEX NAME)

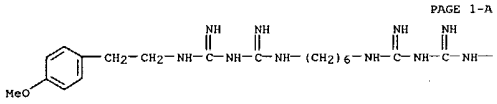
L4 ANSWER 168 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



●2 HCl

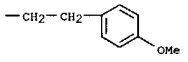
RN 115760-25-3 CAPLUS
CN Biguanide, 1,1'-hexamethylenebis[5-(p-methoxyphenethyl)-, dihydrochloride (6CI) (CA INDEX NAME)

PAGE 1-A



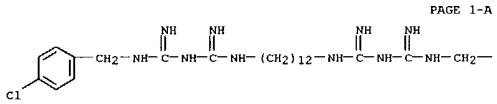
●2 HCl

PAGE 1-B



RN 115916-61-5 CAPLUS
CN Biguanide, 1,1'-dodecamethylenebis[5-p-chlorobenzyl-, dihydrochloride (6CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

L4 ANSWER 168 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

L4 ANSWER 169 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Organic compds. are stabilized against oxidation by use of about 0.01% of bis(biguanides) R2NHC(: NH)NHC(: NH) NH(A)NR5C(:NH)NHC (:NH)NR4R3 (Ia), where R2 and R3 are alkyl or aryl radicals, R4 and R5 are H or alkyl radicals having up to 5 C atoms, and A is a bifunctional group having 2-4 C atoms. Some of these compds. were prepared as follows. Ethylenebis(dicyandiamide) (19.4 g.) 23.6 g. o-toluidine (I), 22 g. concentrated HCl, 75 ml. H2O, and 25 ml. Cellosolve were refluxed 1 hr., the mixture was cooled, and a compound (II), m. 230° (decomposition), was recrystd. from H2O. II was dissolved in hot H2O, treated with Darco, filtered, and the filtrate was neutralized with NaOH. Crystallization from alc. gave ethylenebis (o-tolylbiguanide), m. 156-7° (decomposition). In the following Ia, the different reagents, the product, and the m.p. are listed: p-toluidi , ethylenebis(p-tolylbiguanide), 165°, (decomposition); aniline (III), ethylenebis(phenylbiguanide), 170°, (decomposition); nonylaniline, ethylenebis(nonylphenylbiguanide), aminohydroquinone diethyl ether, ethylenebis(2,5-diethoxyphenylbiguanide), 145-7° (decomposition); 3,5-dimethylaniline, ethylenebis(3,5-dimethylphenylbiguanide), 163° (decomposition); p-tert-amylaniline, ethylenebis(p-tert-amylphenylbiguanide), 110°; o-aminobiphenyl, ethylenebis(o-diphenylylbiguanide), softens at 65°; butylaniline, ethylenebis(butyl phenylbiguanide), 186-8°; tetramethylenebis(dicyandiamide (IV), tetramethylenebis(o-tolylbiguanide), 155°. IV (20.8 g.), 21.4 g. I, and 20 g. concentrated HCl and 75 ml. H2O were refluxed for 1 1/4 hrs. and then cooled in an ice bath to give 1,5-di(o-tolyl)biguanide HCl salt, m. 240-2°. On long standing the filtrate yielded trimethylenebis(o-tolylbiguanide) HCl salt, m. 135-40°. III (0.4 mole), 0.4 mole 37% HCl, and 100 ml. H2O were added to the oil obtained in the preparation of N-butyl-1,3-propylenebis(dicyandiamide), and the mixture was refluxed 1 hr. NaNO3 (0.2 mole) was added to one portion of the mixture; no product was obtained. The other portion was kept 2 days at room temperature to give N-butyl-1,3-propylenebis(phenylbiguanide) HCl salt, m. 110-20°. Use of these inhibitors in concentration of about 0.01% increased the induction period of a thermally cracked metal-free gasoline from 185 min. for untreated gasoline to 255-320 min. for treated gasoline, while the induction period of a gasoline containing 4 ppm. soluble Cu increased from 14 min. untreated to 119-151 min. treated. Soap discoloration was also decreased by use of 0.1% inhibitor.

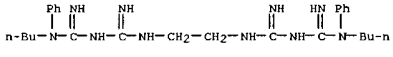
ACCESSION NUMBER: 1957:56927 CAPLUS
DOCUMENT NUMBER: 51:56927
ORIGINAL REFERENCE NO.: 51:10572d-i
TITLE: Bis(biguanides) as stabilizing agents
INVENTOR(S): Kennerly, Geo. W.
PATENT ASSIGNEE(S): American Cyanamid Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2783210		19570226	US	

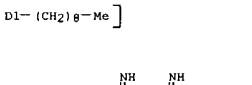
L4 ANSWER 169 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

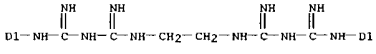
IT **103044-28-6**, Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-
118953-06-3, Biguanide, 1,1'-ethylenebis[5-(nonylphenyl)-
122679-83-8, Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-, nitrate
(preparation of)

RN 103044-28-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-dibutyl-3,8-diimino-N,N''-diphenyl- (9CI) (CA INDEX NAME)



RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)- (9CI) (CA INDEX NAME)

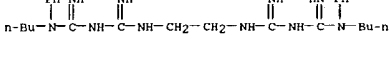




RN 122679-83-8 CAPLUS
CN Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-, nitrate (6CI) (CA INDEX NAME)

CM 1

CRN 103044-28-6
CMF C26 H40 N10



CM 2

CRN 7697-37-2
CMF H N O3

L4 ANSWER 169 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 170 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB A series of bisdiguanides has been prepared either by condensing 1 mole bis(cyanoguanidine) with 2 moles amine HCl salt or by the converse reaction of 2 moles N-arylcyanoguanidine with 1 mole diamine salt. The diamine-2HCl (1 mole) and 2 moles NaC(:NH)NHCN were powdered together, mixed with BuOH, stirred, and refluxed 8-16 hrs. at 130-40° (bath temperature), the mixture cooled, filtered and the product washed free from NaCl with cold H2O, or the filtrate was evaporated to dryness in vacuo yielding the bis(cyanoguanidines), X[NRC(:NH)NHCN]2 (X, m.p. (solvent), and % yield given). For R : H: (CH2)2, 248-50° (H2O), 57; (CH2)3, 206° (H2O), 50-60; (CH2)4, 197-9° (H2O), 74; (CH2)5, 169-71° (H2O), 58; (CH2)6 (I), 202-3° (H2O), 70-80; (CH2)7, 144-6 (dilute alc.), 30-40; (CH2)10, 184-6° (dilute alc.- PhOH), very low; (CH2)3O(CH2)3, 138-40° H2O), 56; (CH2)3OC6H4O(CH2)3-p, 204-6° (dilute alc.- PhOH), 56; and (CH2)3O(CH2)2O(CH2)3, gum. (CH2)6[NBuC(:NH)NHCN]2 m. 186-7° (from dilute alc.), 83% yield. I (30 g.), 39.6 g. p-ClC6H4NH2.HCl, and 300 cc. EtOCH2CH2OH were stirred under reflux 3 hrs. at 130-40°, the mixture cooled and filtered, and the product (62 g.) washed with EtOH yielding 1,6-bis-(N5-p-chlorophenyl-N1-diguanido)hexane-2HCl (II), m. 260-2° (decomposition), converted by adding hot aqueous solution to excess aqueous NaOH to the base (IIa), m. 133.5-4.0° (corrected) (from MeOH); diacetate, m. 154-5° (corrected). H2N(CH2)6NH2.2HCl (10.4 g.) and 19.5 g. N3-p-chlorophenyl-N1-cyanoguanidine were stirred 16 hrs. in 50 cc. PhNO2 at 140-5°, the hot suspension filtered, the well-pressed filter cake suspended in EtOH and stirred 1-5 hrs., and filtered to give crude II, m. 257-8°. All bis(p-chlorophenyldiguanides) listed were prepared by the former method with the exception of compds. 11,384 and 11,385. Bis(p-chlorophenyldiguanidines), X[NHC(:NH)NHC(:NH)NHC6H4Cl]2 (code number, X, m.p. (solvent), and % yield given): 20,184, (CH2)2, 245-6° (decomposition) (prisms from H2O), 26; 12,483, (CH2)5, 224-6° (decomposition) (needles from H2O), 50; 12,484, (CH2)4, 253-4° (decomposition) (plates from H2O), 59; 12,485, (CH2)5, 250° (needles from H2O), 58; 12,486, (CH2)7, 253-4° (from H2O), 57; 11,383, (CH2)10, 246-8° (dilute alc.), 60; 14,345, (CH2)3O(CH2)3, 236-8° (H2O), 73; 14,411, (CH2)3O(CH2)2O(CH2)3, 204-5° (aqueous Me2CO), 50; 11,382, p-(CH2)3OC6H4O(CH2)3, 248-9° (dilute alc.), 35; 11,384, p-C6H4, 253-4° (dilute alc.), 70; 11,385, p-C6H4CH2C6H4-p, (dilute alc.), 50. A slightly modified procedure was employed for the production of the bisguanides in that a solvent was not required, and the usual practice was to fuse an intimate mixture of the bis(cyanoguanidines) with the alkylamine hydrochlorides at 150-60°. 1,6-Bis(diguanidino)hexanes, (CH2)n[NHC(:NH)NHC(:NH)NRR']2 (code number, R, m.p. (solvent), and % yield given, R' : H, n = 6): 10,387, Ph, 242-4° (needles from H2O), 74; 10,688, p-MeC6H4, 263-4° (dilute alc.-PhOH), 90; 11,108, p-HOC6H4, 200-2° (plates from EtOH-PrOH), 40; 10,689, p-MeOC6H4, 238-40° (needles from MeOH-EtOH), 78; 10,691, p-HO2CC6H4, 218-24° (decomposition) (H2O), 42; 10,040, p-ClC6H4, 260-2° (plates from H2O), 90; 11,380, m-ClC6H4, 233-4° (dilute alc.), 10; 11,386, 3,4-Cl2C6H3, 259-60° (EtOC2H4OH), 68; 11,381, 2,5-Cl2C6H3, 249-50° (needles from dilute alc.), 34; 11,110, α-C10H7, 257-8° (dilute AcOH), 48; 10,388, β-C10H7, 252-4° (needles from H2O), 74. Miscellaneous bisguanides: BuNH2.HCl (1.1 g.) and

L4 ANSWER 170 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

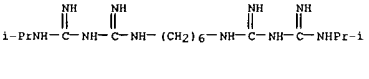
1.25 g. I were powdered together and heated at 150-5° for 2 hrs., the solidified melt taken up in alc. and pptd. with EtOAc yielding 1,6-bis(N5-butyl-N1-diguanido)hexane-2HCl (9458), m. 223-4°. Similarly were prepd. the corresponding 1,6-bis(N5-substituted-N1-diguanido)hexane-2HCl (code no., N5-substituent, m.p. (solvent), and % yield given): 9357, iso-Pr, 256-7° (EtOH-EtOAc), 50; 9382, C6H11, 234-6° (EtOH-EtOAc),-; 9383, (CH2)5, 231° (prisms from EtOH-EtOAc), 45; 10,690, 6-methoxy-8-quinolinyl, 246-8° (needles from H2O), 45. I (5.0 g.) was added with stirring to 5.6 g. 2-amino-4,6-dimethylpyridine in 50 cc. EtOCH2CH2OH, the mixt. dild. with 8.5 cc. 4.8N alc. HCl, refluxed 68 hrs. with stirring, the solvent evapd. in vacuo, the residue taken up in 50 cc. H2O, 10N NaOH added, and the pptd. brown gum washed by decantation with H2O and dissolved in dil. HCl. The soln. was made alk. with NH4OH, filtered, the filtrate decolorized with C, treated with NaOH, the gummy base washed by decantation, taken up in 100 cc. 1:1 aq. alc., treated with 3 cc. H2SO4 (d. 1.84), made alk. with NHEt2 and pptd. with excess anhyd. alc. yielding 7 g. product, recrystd. from H2O to give 1.8 g. prisms of 1,6-bis[N5-(2-amino-4,6-dimethyl-5-pyrimidinyl)-N1-diguanido]hexane disulfate (10,160), m. 220-5° (decompn.). Refluxing 16 hrs. 10.0 g. (CH2)6(NCS)2 and 13.0 p-ClC6H4NH2, in 150 cc. EtOH, adding H2O and cooling gave 16 g. crude product, crystd. from EtOH to give 60% 1,6-bis(N3-p-chlorophenyl-N1-thioureido)hexane (11,368) (III), m. 171-2°. III (9.1 g.) in 80 cc. cold EtOCH2CH2OH was treated 40 hrs. at 30-5° with 150 cc. 5.6N NH4OH and 4.5 g. HgO, warmed to 60°, filtered, the filtrate concd. in vacuo, dild. by slow addn. of H2O, and the ppt. crystd. from dil. alc. to yield 2.6 g. 1,6-bis(N5-p-chlorophenyl-N3-guanido)hexane (11,717), m. 160-1°. IIa (chlorhexidine B.P.C.) has found practical use as an antibacterial agent.

ACCESSION NUMBER: 1957:21579 CAPLUS
DOCUMENT NUMBER: 51:21579
ORIGINAL REFERENCE NO.: 51:4294f-i,4295a-g
TITLE: Bisdiguanides with antibacterial activity
AUTHOR(S): Rose, F. L.; Swain, G.
CORPORATE SOURCE: Imperial Chem. (Pharmaceuticals) Ltd., Manchester, UK
SOURCE: Journal of the Chemical Society, Abstracts (1956) 4422-5
CODEN: JCSAAZ; ISSN: 0590-9791
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

IT **107101-12-2**, Biguanide, 1,1'-hexamethylenebis[5-isopropyl-, dihydrochloride **108126-36-9**, Biguanide, 1,1'-hexamethylenebis[5-butyl-, dihydrochloride
(preparation of)

RN 107101-12-2 CAPLUS

CN Biguanide, 1,1'-hexamethylenebis[5-isopropyl-, dihydrochloride (6CI) (CA INDEX NAME)

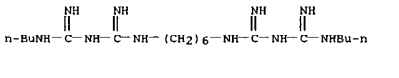


●2 HCl

RN 108126-36-9 CAPLUS

L4 ANSWER 170 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN Biguanide, 1,1'-hexamethylenebis[5-butyl-, dihydrochloride (6CI) (CA INDEX NAME)



●2 HCl

L4 ANSWER 171 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN

AB Equivalent quantities of ethylene bis-dicyandiamide (I), an aromatic amine, and a strong acid such as HCl were heated in an inert solvent, and the acid addition salt obtained was treated with alkali to give ethylene bis-arylbiguanides. Thus, I 19.4 g. PhNH2 20.4 g., HCl 22 g., H2O 75 ml., and Ethyl Cellosolve 25 ml. were refluxed 1 hr., cooled, and 33 g. of the HCl addition salt, m. 215° (decomposition) obtained, which was neutralized with 10% aqueous NaOH to give 90% ethylenebis(phenylbiguanide, m. 170° (decomposition). Similarly prepared were the following ethylene bis-arylbiguanides (aryl, m.p. of HCl salt given): 1-tolyl, 156-7°, 221° (decomposition); p-tolyl, 165° (decomposition), 241° (decomposition); p-tert-amylphenyl, 170-2°, oil (HNO3, m. 182-4°); nonylphenyl, oil; 2,4-dimethylphenyl, 136°, 236°, 3,5-dimethylphenyl, m. 163° (decomposition), oil, (HNO3, m. 166°), o-diphenyl, 65° (softens), 236°; p-chlorophenyl, 167°, 236° (decomposition); 2,5-diethoxyphenyl, 145-7°, 206°; p-sulfophenyl, 225°, -, [2H2O, m. 280° (decomposition)]; N-butylphenyl, -, -, (HNO3, m. 186-8°). I was prepared as follows: H2SO4 1 mole diluted with H2O 100 ml. was added dropwise to ethylenediamine 1 mole in BuOH 1.1 moles, the mixture distilled under vacuum until H2O was removed, 79% sodium dicyanamide 2.2 moles and BuOH 750 cc. added, a few ml. H2SO4 were added to bring the pH to about 7.5, the mixture then heated 18 hrs. on a steam bath, the BuOH removed under vacuum, H2O 500 ml. added, and the distillation continued, to remove residual BuOH, H2O 1.1 added and the mixture cooled and filtered, the solid was washed with H2O and air-dried gave 164 g. (84.5%) I, m. 240° (decomposition).

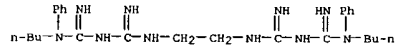
ACCESSION NUMBER: 1955:60724 CAPLUS
DOCUMENT NUMBER: 49:60724
ORIGINAL REFERENCE NO.: 49:11701h-i,11702a-b
TITLE: Ethylene bis-arylbiguanides
INVENTOR(S): Kaiser, Donald W.; Holm-Hansen, Dagfrid
PATENT ASSIGNEE(S): American Cyanamid Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2690455		19540928	US	

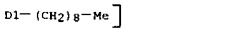
IT **103044-28-6**, Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-
118953-06-3, Biguanide, 1,1'-ethylenebis[5-(nonylphenyl)-
122679-83-8, Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-, nitrate
(preparation of)

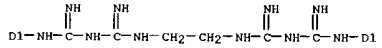
RN 103044-28-6 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, N,N''-dibutyl-3,8-diimino-N,N''-diphenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 171 OF 171 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 118953-06-3 CAPLUS
CN 2,4,7,9-Tetraazadecanediimidamide, 3,8-diimino-N,N''-bis(nonylphenyl)- (9CI) (CA INDEX NAME)

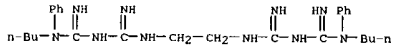




RN 122679-83-8 CAPLUS
CN Biguanide, 1,1'-ethylenebis[5-butyl-5-phenyl-, nitrate (6CI) (CA INDEX NAME)

CM 1

CRN 103044-28-6
CMF C26 H40 N10



CM 2

CRN 7697-37-2
CMF H N O3

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                   826.11     981.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                  -119.00    -119.00

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